USER'S MANUAL & PARTS LIST

KB-2M (L&R)

(CORDING & LOOPING)

Original Instructions
M-KB2M13-E
(2013.03)

Foreword

This manual is a guidebook for the optional device “KB-2M”.

Please read this manual thoroughly and operate the device after you understand the contents.

This manual may contain discrepancies in detailed specification as compared with the actual production.

If you have any question about this manual, consult your TAJIMA distributor.

Please keep this manual with care near the machine for quick reference.

Tokai Industrial Sewing Machine Co., Ltd.

Important safety instructions

Items that require your special attention on operation are specified below.

Indicates that there is a lot of danger of death or serious injuries[*A] if the instruction is not observed.

Indicates that there is a likelihood of death or serious injuries[*A] if the instruction is not observed.

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury[*B] or property damage.

[*A] A condition caused by electric shock, injury, fracture of a bone, etc., that leads to aftereffects, or an injury that necessitates hospitalization or visits to a hospital over a long period.

[*B] An injury that does not necessitate hospitalization or visit to a hospital over a long period.

: Prohibited items

: Items that may cause electric shock if not observed

: Items that must be followed carefully to ensure safe operation

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Parts list..... End of the manual

Chapter 1 Instructions for use

CAUTION

- When performing works described in this manual (excluding the operation of the operation panel), be sure to turn OFF the power switch. Otherwise, you could be injured by unexpected malfunctioning of the machine.
- To perform looping, set the upper limit value of Max revolution to 600 rpm. When using the device with the number of revolutions exceeding this, the device or the presser foot, etc. could be broken.
- When the device is not used, set the cord presser (1 in the figure A) to the retracting position. Otherwise, the frame will hit the cord presser 1 according to the frame movement and the frame or the device could be damaged.
- Embroidery space will be limited according to using condition of the device. Before starting embroidery, perform Trace operation for the design in the state that the cord presser 1 is at the retracting position, and check the embroidery space.

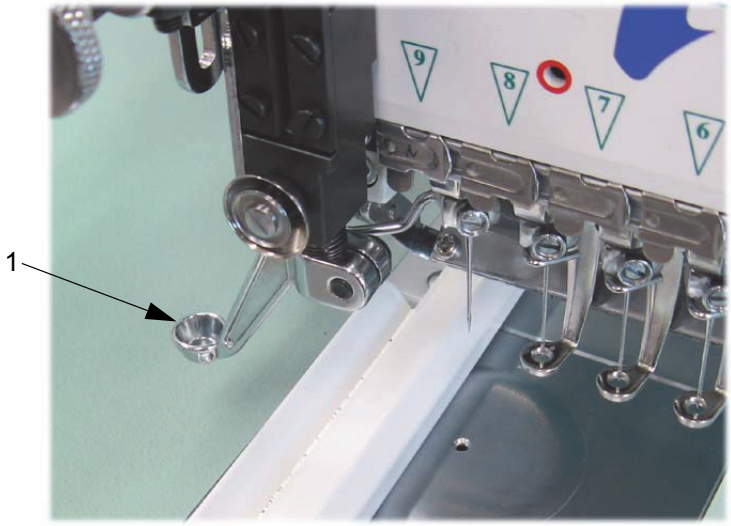


Figure A

Chapter 2 Outline of the device

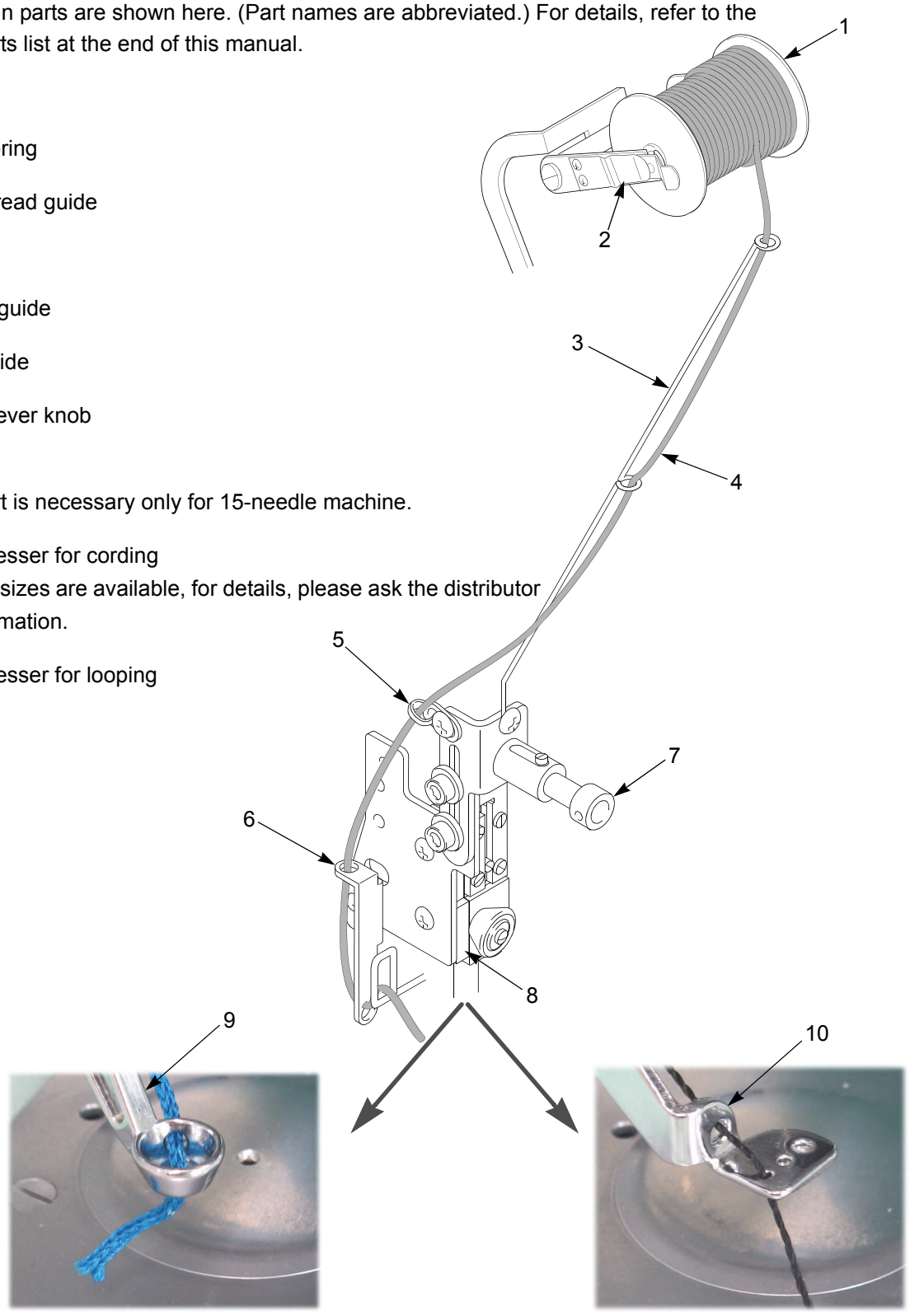
The device equipped to left side is described as the device L and the device equipped to right side is described as the device R in this manual. However, even in case of the device R, some picture or illustration of the device L may be used for the explanation in this manual.

1. Name of each part

1-1. The device L

Only the main parts are shown here. (Part names are abbreviated.) For details, refer to the separate parts list at the end of this manual.

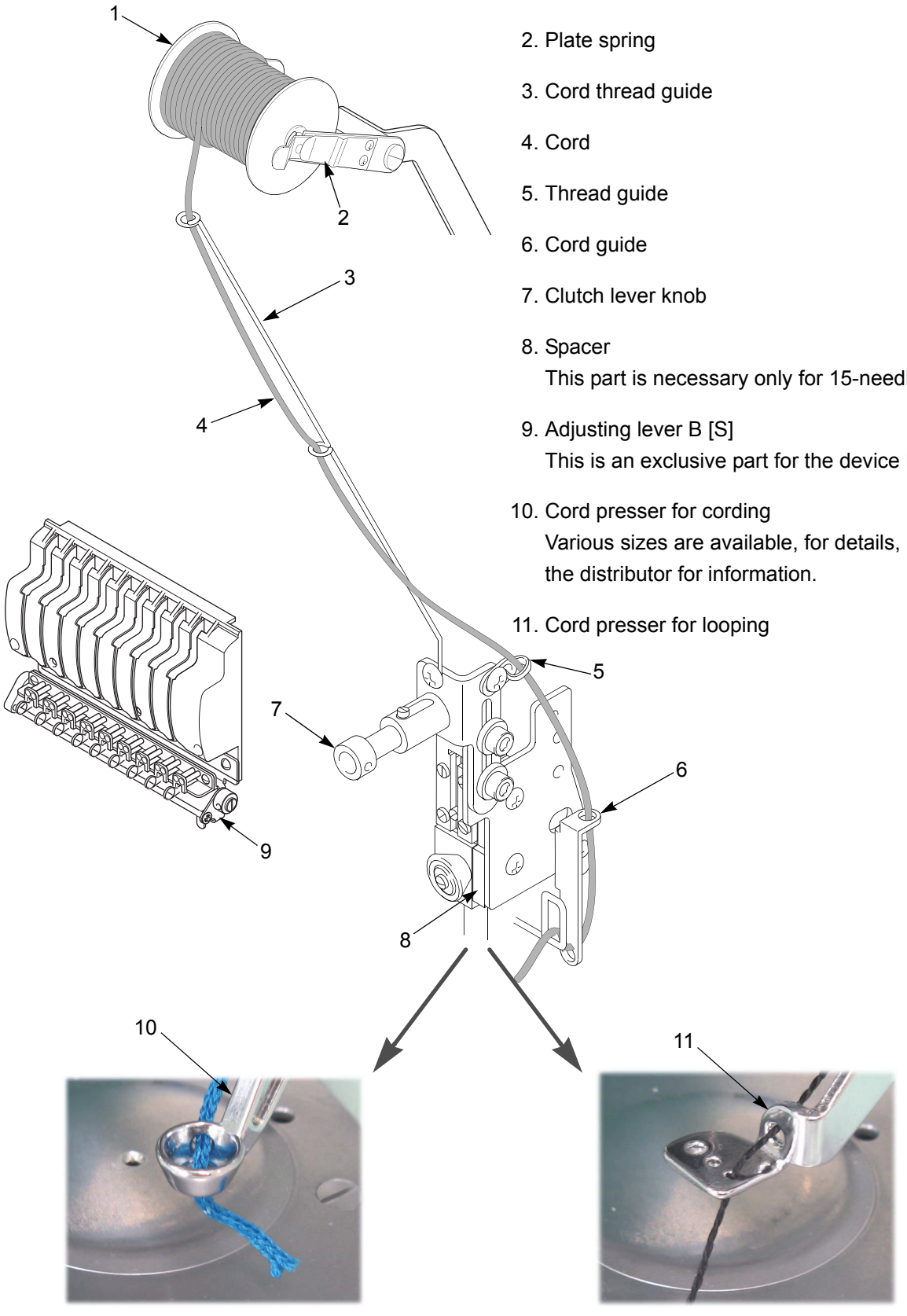
1. Bobbin
2. Plate spring
3. Cord thread guide
4. Cord
5. Thread guide
6. Cord guide
7. Clutch lever knob
8. Spacer
   This part is necessary only for 15-needle machine.
9. Cord presser for cording
   Various sizes are available, for details, please ask the distributor for information.
10. Cord presser for looping



1-2. The device R

Only the main parts are shown here. (Part names are abbreviated.) For details, refer to the separate parts list at the end of this manual.

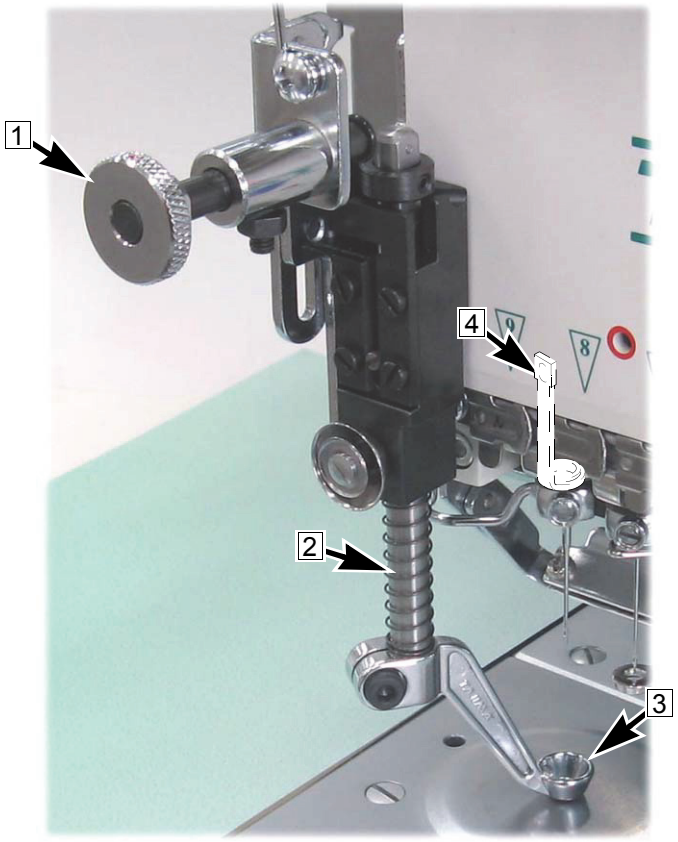
1. Bobbin
2. Plate spring
3. Cord thread guide
4. Cord
5. Thread guide
6. Cord guide
7. Clutch lever knob
8. Spacer
   This part is necessary only for 15-needle machine.
9. Adjusting lever B [S]
   This is an exclusive part for the device R.
10. Cord presser for cording
    Various sizes are available, for details, please ask the distributor for information.
11. Cord presser for looping



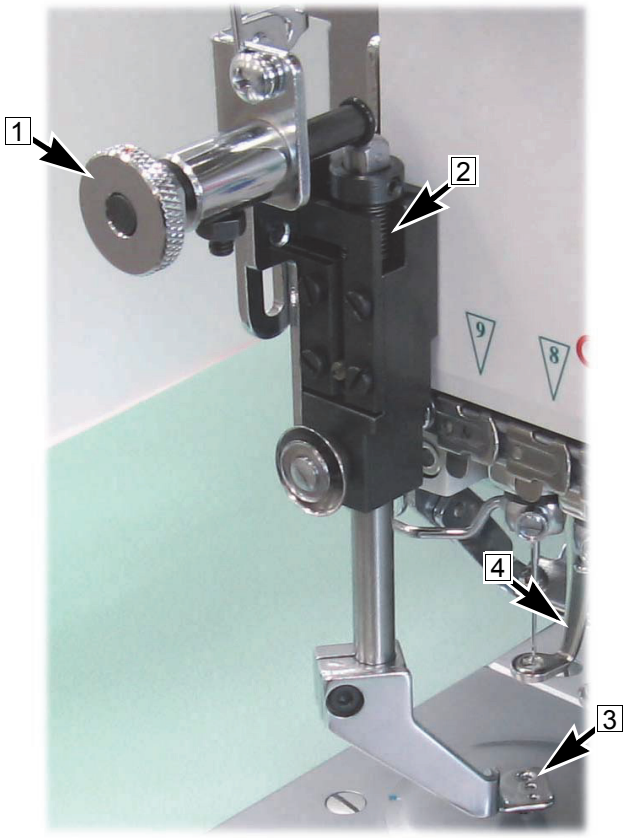
Difference between cording and looping

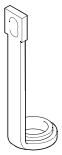
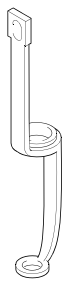
The following indicates the device L. In case of the device R, the direction becomes opposite.

Cording



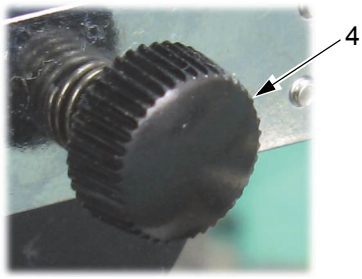
Looping



	Cording	Looping
1 Clutch lever knob	In the state of being pulled	In the state of being pushed
2 Spring	Fixed at lower position	Fixed at upper position
3 Cord presser	For cording	For looping
4 Presser foot	Noise-reduction type : Use the presser foot for cording.  Standard type: not to use	To use 

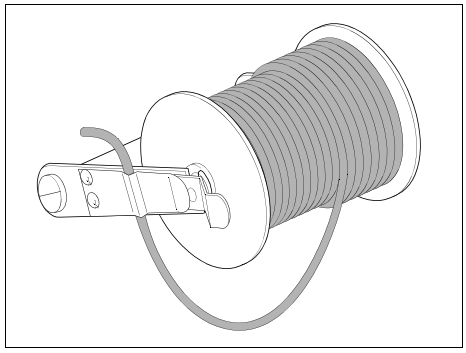
2. Attaching of bobbin

Insert the bobbin 1 to the shaft 2, and hang the plate spring 3 on 2.



Turn the tension adjusting screw 4 and apply tension to the bobbin 1 so that the bobbin does not run idle.

When not using

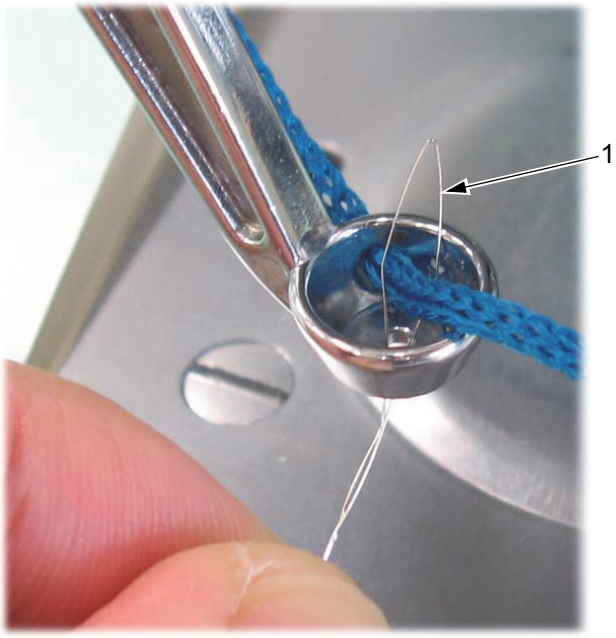


3. How to pass cord

Use the threader (1 in the figure A), when passing a cord to the hole.

Refer to p.2 how to pass the cord to the whole of the device.

Figure A

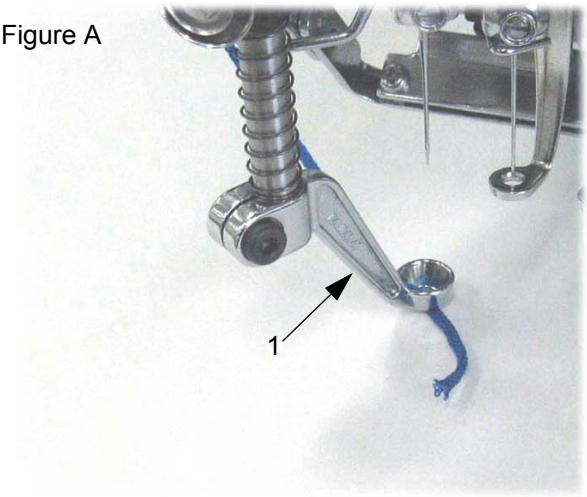


4. Height of cord presser

The height of the cord presser (1 in the figure A) can be switched to three steps according to using condition of the device.

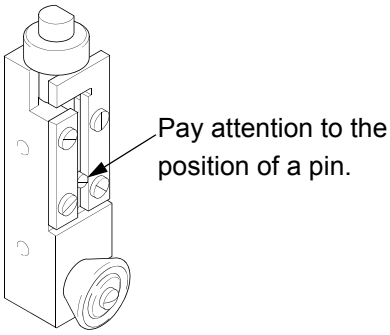
4-1. When embroidering

Figure A

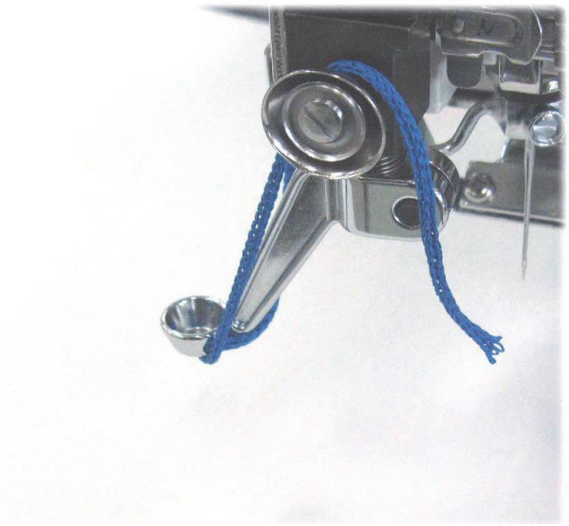


◀ Stand-by position

This is the position when cording starts. Start cording in this state.

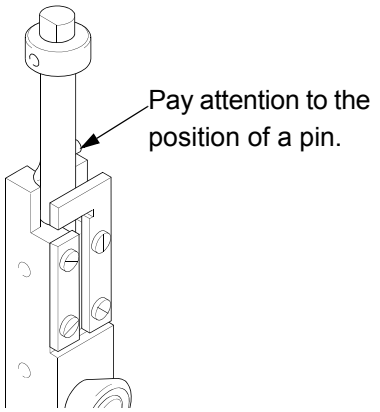


4-2. When not using the device

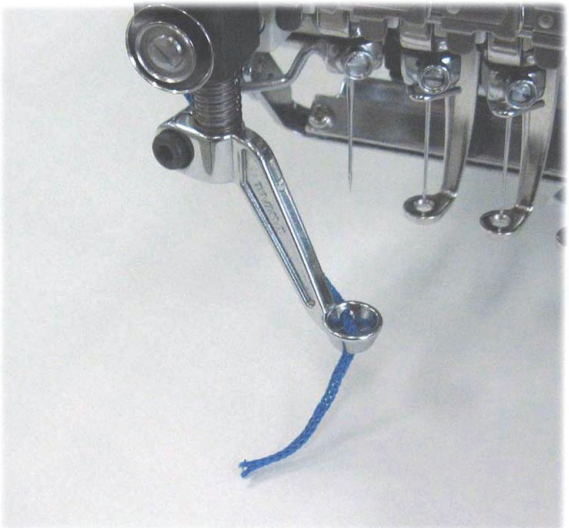


◀ Retracting position

Position not to use the device

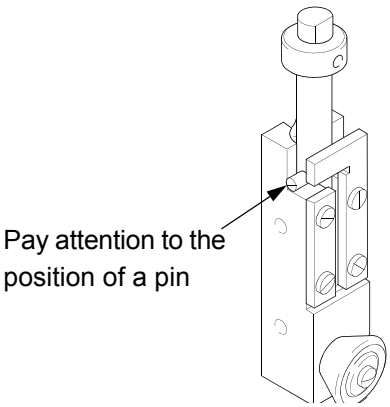


4-3. When passing the cord



◀ Middle position

Position of passing the cord

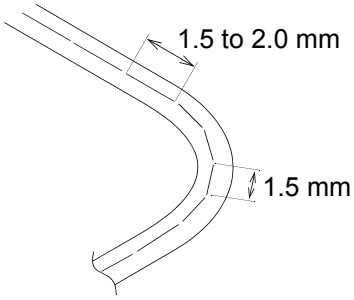


5. How to make stitch data

Creating procedure of stitch data is different in cording and looping.

5-1. Cording

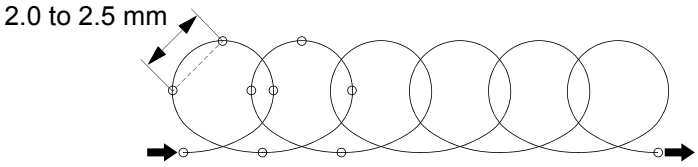
Stitch length differs depending on thickness of cord, and design data, etc. Make stitching within a range of 1.5 to 2.0 mm generally. Set stitch length to about 1.5 mm at sharp curved section.



5-2. Looping

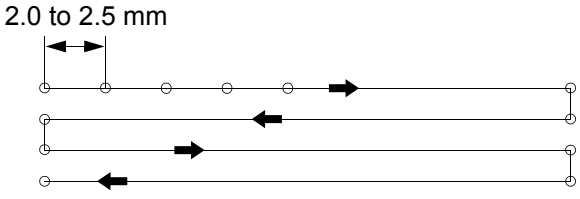
Stitch length differs depending on thickness of cord, and design data, etc. Make stitching within a range as shown below generally.

(1) stitches in circular motion

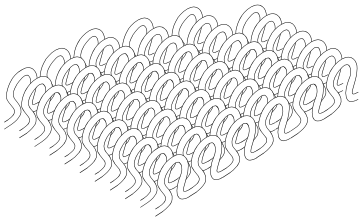


An example of finishing of sewing

(2) An example of stitches in reciprocating motion



An example of finishing of sewing



Chapter 3 Preparation

Prepare before using the machine according to the following procedure.

1. Cording

1-1. Setting on the operation panel

Check if setting of the device is YES or ON referring to p.10.

1-2. Maximum RPM

Although It is based on the maximum number of revolutions of the machine, set the max revolution according to finishing of sewing.

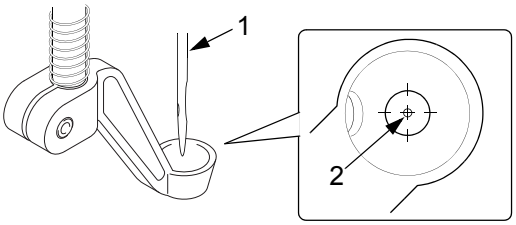
1-3. Needle location

(1) Turn the main shaft counterclockwise to set the main shaft angle to around 180°.

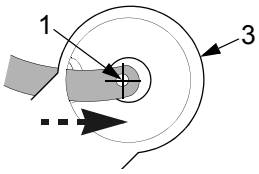
(2) Set the device to the retracting position (=>p.6).

(3) Lower the needle 1 to check if the needle 1 locates at the center 2 of the hole. When adjustment is necessary, refer to 2-5. of p.17.

Lower one after another needle of the heads to be adjusted (to prevent breakage of the tip of the needle).



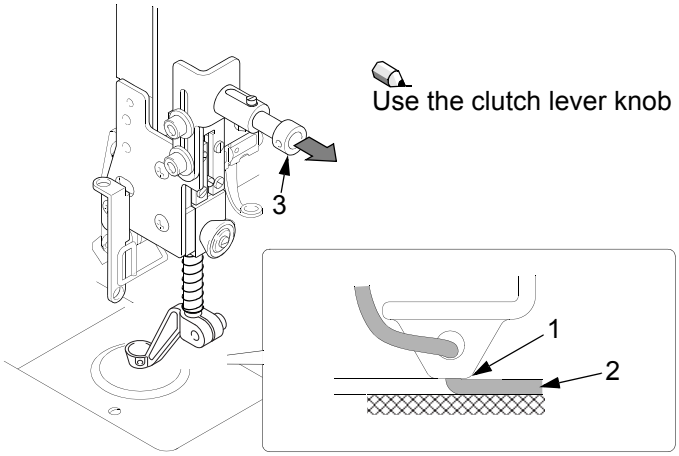
When the needle 1 does not stick in cord during embroidering, move the cord presser 3 to the right a little.



1-4. Height of cord presser

(1) Pass a cord to the device.

(2) Check if the bottom 1 of the cord presser presses the cord 2 lightly. When adjustment is required, refer to 2-5. of p.17.



Use the clutch lever knob 3 (pulled out).

This completes the preparation.

2. Looping

CAUTION

In looping, the upper limit value of Max revolution is 600 rpm. When using the device with the number of revolutions exceeding this, the device or the presser foot, etc. could be broken.

2-1. Setting on the operation panel

Check if setting of the device is YES or ON referring to p.10.

2-2. Maximum RPM

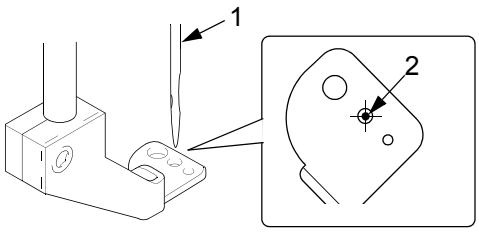
The upper limit value is 600 rpm.

2-3. Needle location

(1) Set the device to the retracting position (=>p.6).

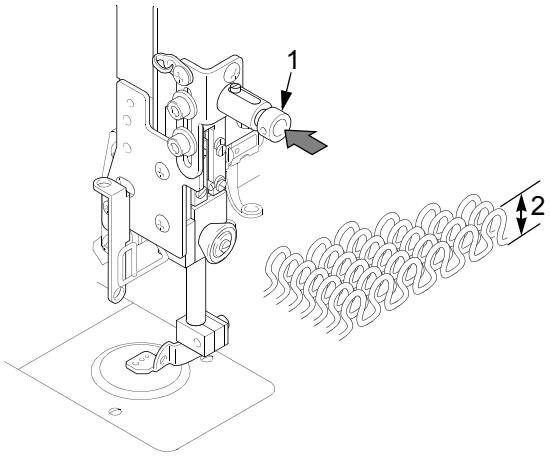
(2) Lower the needle 1 to check if the needle 1 locates at the center 2 of the hole. When adjustment is necessary, refer to 2-5. of p.29.

Lower one after another needle of the heads to be adjusted (to prevent breakage of the tip of the needle).



2-4. Thrust the clutch lever knob.

(1) Thrust the clutch lever knob 1.



To adjust the height 2 of loop, refer to (5) of p.30.

(2) Pass a cord to the device.

This completes the preparation.

Chapter 4 Setting on the operation panel

This setting will cause the following status at cord needle (1st or last needle).

Automatic/manual thread trimming is not possible.

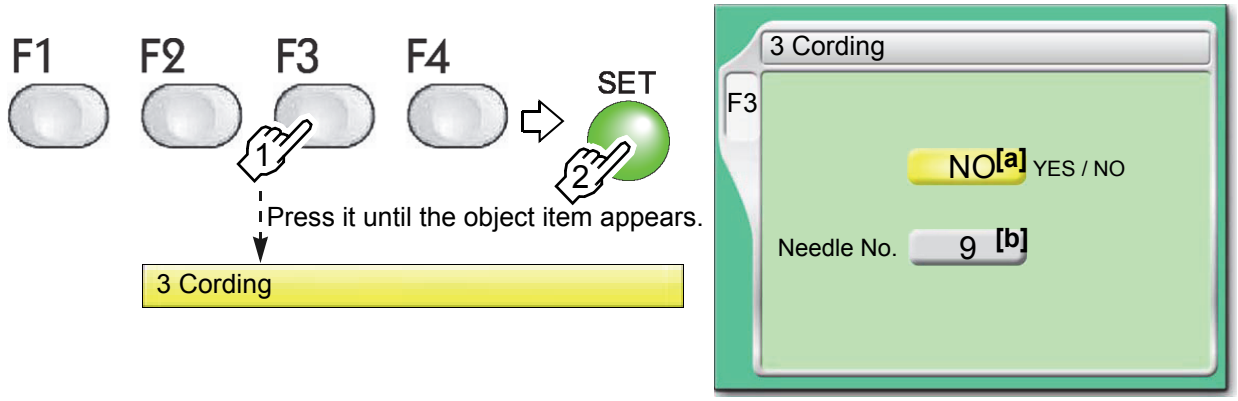
Automatic color change (thread change) is not possible.

Automatic start is not possible.

1. TFMX, TFMS, TEMX-C, TWMX-C, TCMX mixed type, TLMX mixed type

When you use this device for the first time, check if the setting of the operation panel is set to YES by the following procedure. After installation of software, this value will be set to NO . Perform setting again.

(1) To call the screen

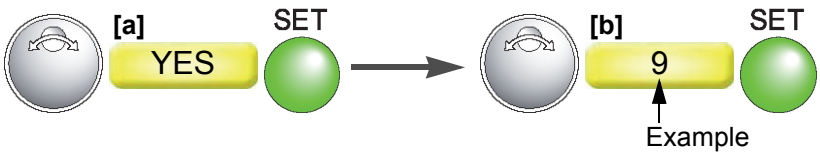


<Explanation on the screen>

[a] YES: to use
NO: not to use

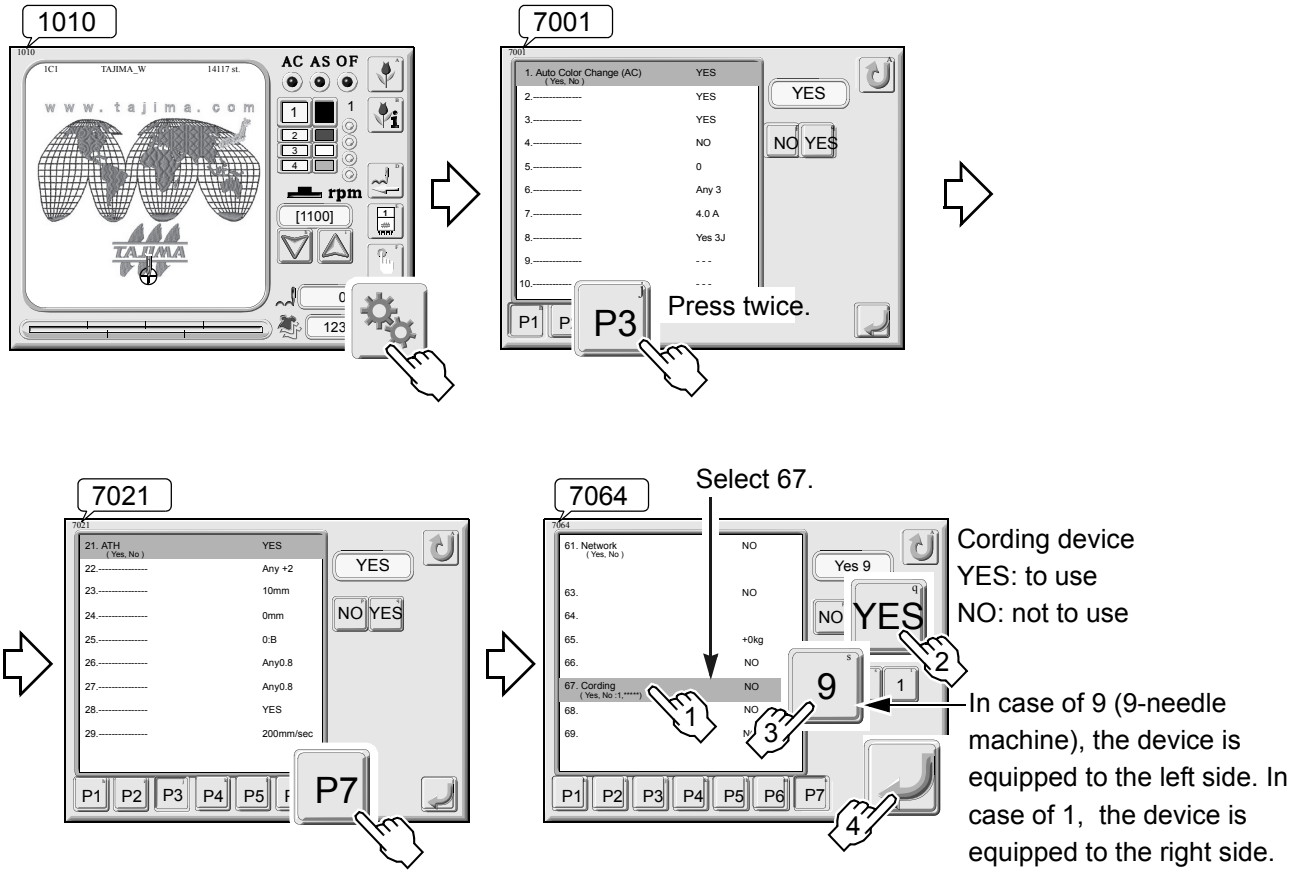
[b] Needle bar No. equipped with device
1(st needle): equipped to the right side
9 (In case of 9-needle machine): equipped to the left side

(2) Select a value and [SET].



2. TFGN II, TFGS

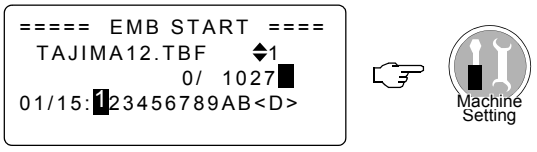
When you use this device for the first time, check if the setting (67.Cording) of the operation panel is set to Yes by the following procedure.


1010
7001
Press twice.
7021
7064
Select 67.
Cording device
YES: to use
NO: not to use
In case of 9 (9-needle machine), the device is equipped to the left side. In case of 1, the device is equipped to the right side.

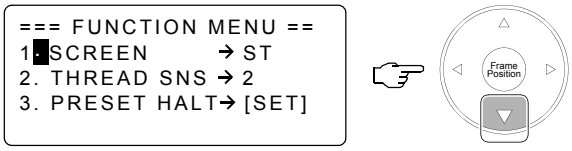
3. TEJTII-C

When you use this device for the first time, check if the setting D. Cording of the operation panel is set to ON by the following procedure.

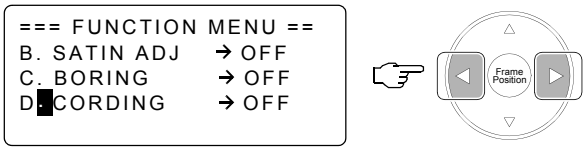
(1) Switching to MACHINE SETTING



(2) Switching of item to display

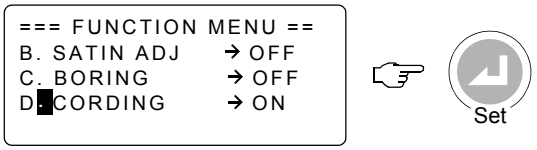


(3) Selection of setting value

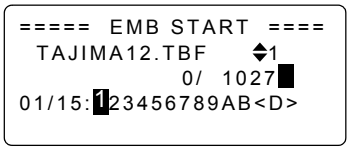


OFF: not equipped
ON: equipped
(It is available only when the device is equipped at left side.)

(4) Press Set .



(5) Completion

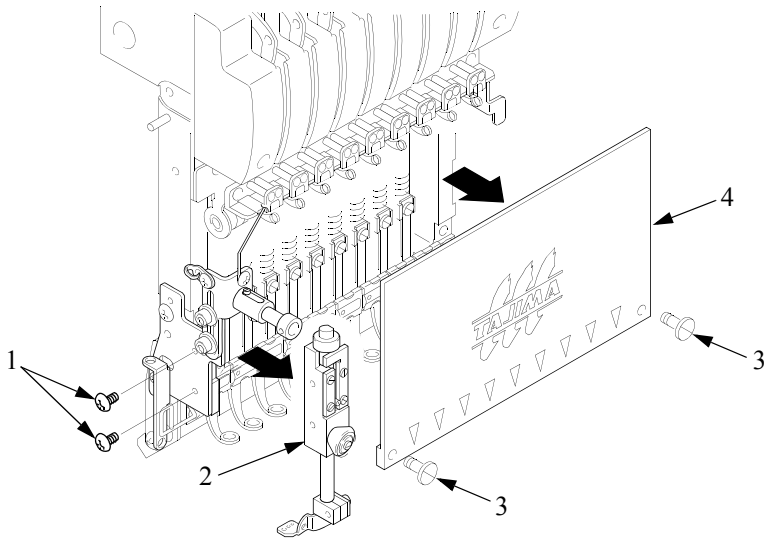


Chapter 5 Change of the device from Looping to Cording

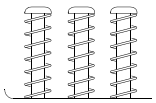
This chapter explains the case of the device L basically. In case of the device R, the direction becomes opposite but the procedure is same as the case of the device L.

1. Confirming of presser foot

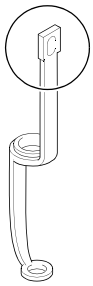
Remove the screw 1 and detach the body 2. Remove the screw 3 and detach the face plate 4.



Confirm the presser foot type equipped (figure below) afterward.

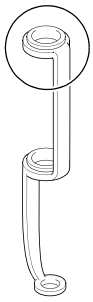


Noise-reduction type

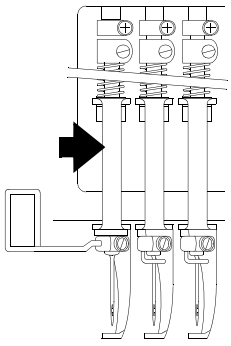


Perform working of 2. of p.14 and after.

Standard type



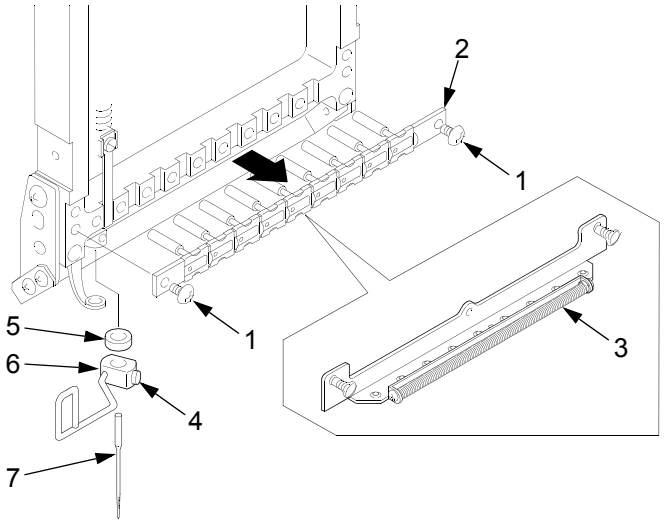
Perform working of 3. of p.19 and after.



2. Model with presser foot for noise-reduction type

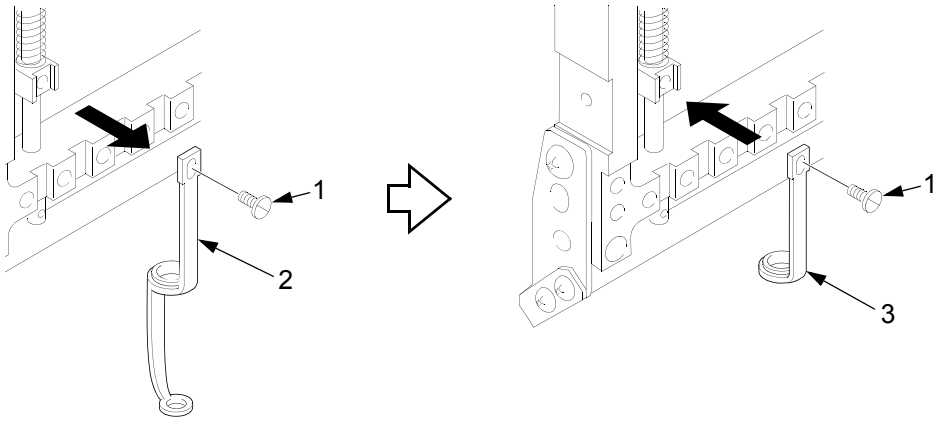
2-1. Detaching of parts related

Remove the screw 1 and detach the upper thread locking device 2 (There may be the case of the lower thread guide 3 for KB-2M depending on model). Loosen the screw 4 and detach the cushion ring 5, the needle clamp 6 and the needle 7.

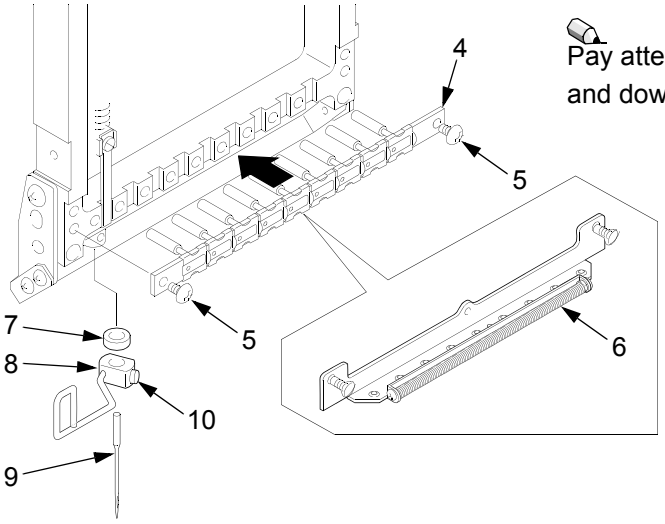


2-2. Change of the presser foot

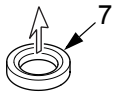
(1) Remove the screw 1 and detach the presser foot 2 for noise-reduction type. Attach the presser foot 3 for cording and tighten the screw 1.



(2) Attach the upper thread locking device 4 and tighten the screw 5 (There may be the case of the lower thread guide 6 for KB-2M depending on model). Attach the cushion ring 7, the needle clamp 8 for cording and the needle 9. Then, tighten the screw 10.

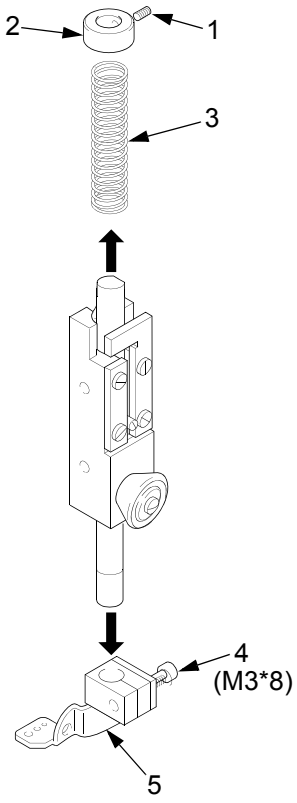


Pay attention to the direction (up and down) of the cushion ring 7.

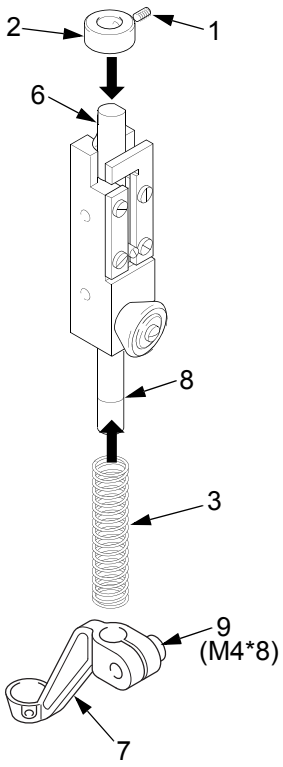


2-3. Change of cord presser

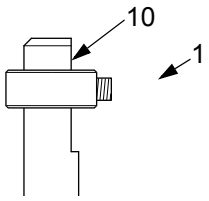
(1) Loosen the screw 1 and detach the collar 2 and the spring 3. Loosen the screw 4 (M3*8) and detach the cord presser 5 for looping.



(2) Fit the collar 2 into the shaft 6 and tighten the screw 1. Lifting the spring 3 and the cord presser 7 for cording until they touch the step 8, and tighten the screw 9 (M4*8) temporarily.

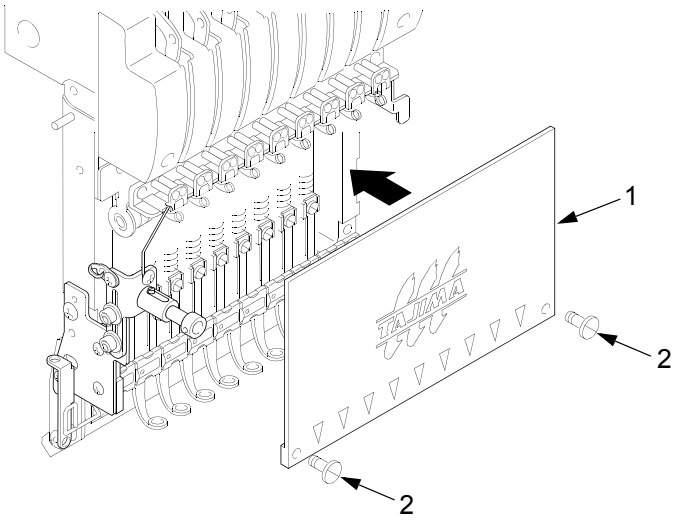


Touch the screw 1 to the flat face 10.

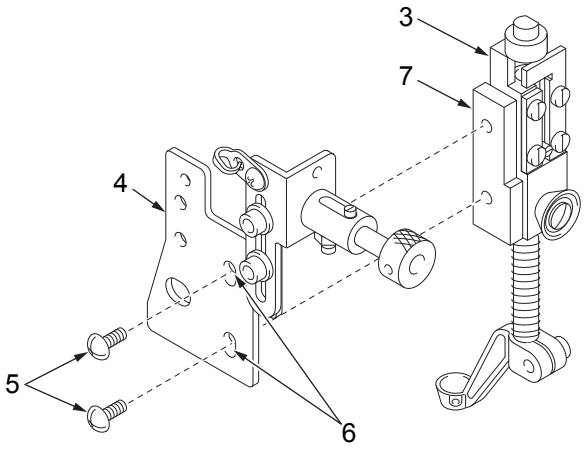


2-4. Attaching of the body

(1) Attach the face plate1 and tighten the screw 2.



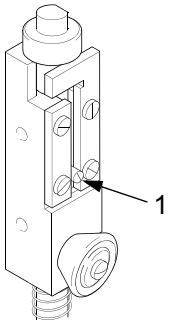
(2) Attach the body 3 to the base 4 and tighten the screw 5.



The spacer 7 is necessary only for 15-needles machine.

2-5. Adjustment of cord presser

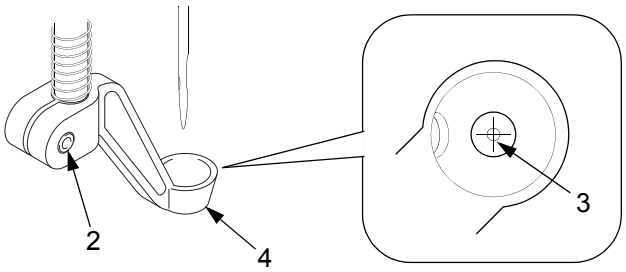
(1) Put the guide pin 1 into the groove.



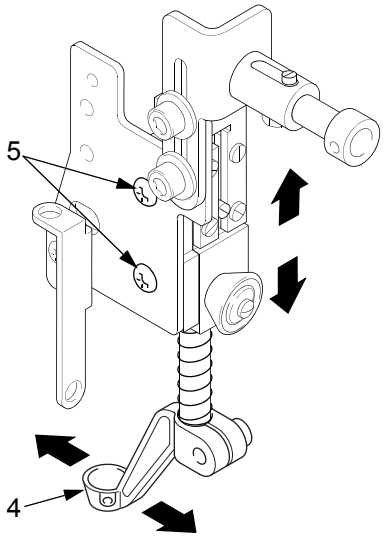
(2) Turn the main shaft counterclockwise to set the main shaft angle to around 180°. Lower the needle bar by hand.

Lower one after another needle of the heads to be adjusted (to prevent breakage of the tip of the needle).

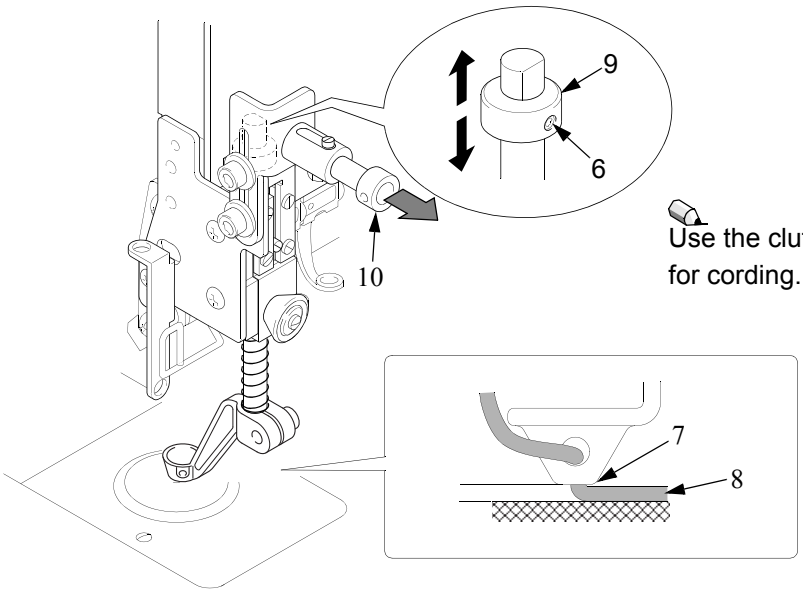
(3) Regarding crosswise direction, loosen the screw 2 to adjust the position of the cord presser 4 so that the needle locates at the center 3 of the hole.



(4) Regarding lengthwise and up/down direction, loosen the screw 5 to adjust the position of the cord presser 4.



(5) Loosen the screw 6 and adjust the position of the collar 9 so that the bottom 7 of the cord presser presses the cord 8 lightly. Then tighten the screw 6.



Use the clutch lever knob 10 (pulled out) for cording.

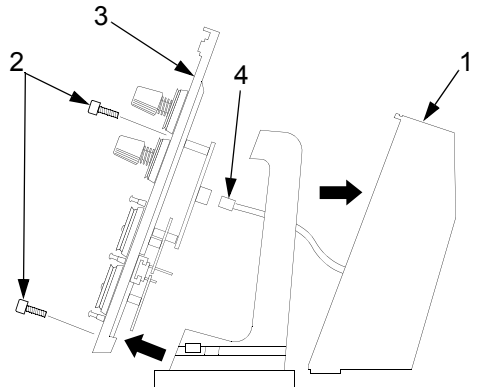
This completes the works.

3. Model with presser foot for standard type

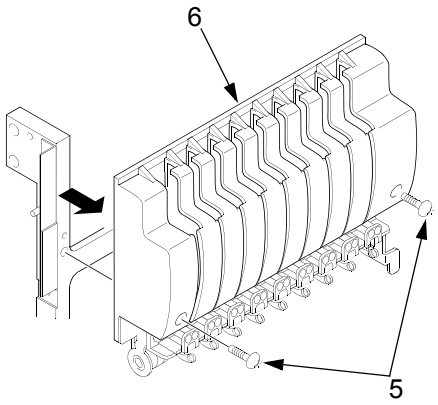
The needle bar connecting stud gauge is required for the working here (=>p.21). Consult the distributor before working.

3-1. Detaching of parts related

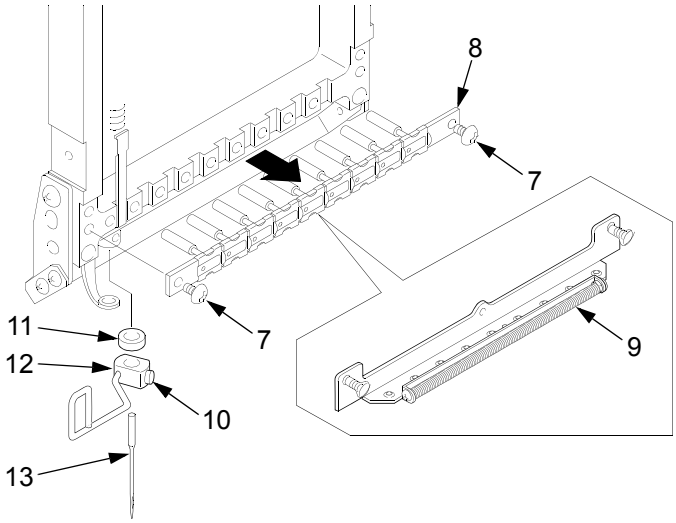
(1) Detach the tension base cover 1. Remove the screw 2 and detach the tension base cover 3. Detach the connector 4.



(2) Remove the screw 5 and detach the top cover 6.

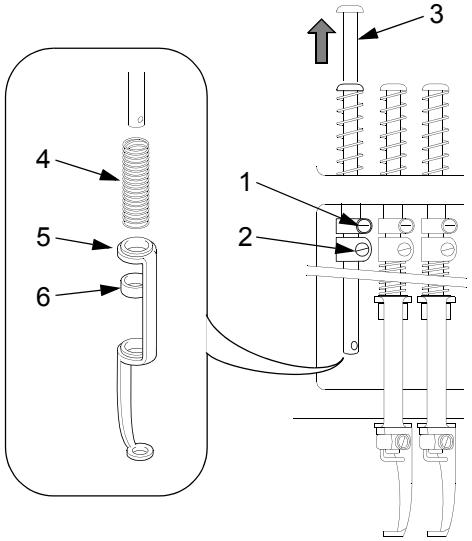


(3) Remove the screw 7 and detach the upper thread locking device 8 (There may be the case of the lower thread guide 9 for KB-2M depending on the model). Loosen the screw 10 and detach the cushion ring 11, the needle clamp 12 for cording and the needle 13.



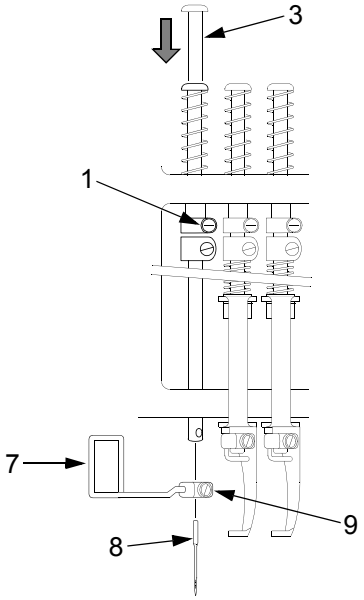
3-2. Detaching of the presser foot

(1) Loosen the screw 1 and 2, then pull up the needle bar 3. Detach the spring 4, the presser foot 5 and the cushion ring 6.



Keep the spring 4, the presser foot 5 and the cushion ring 6 as they are not used.

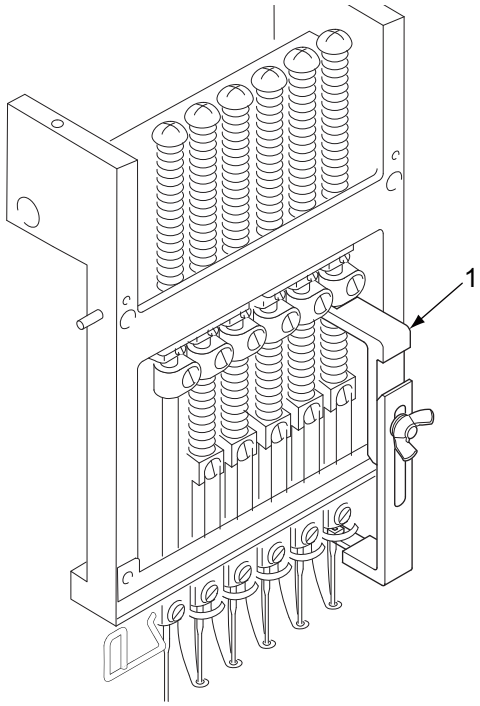
(2) Lower the needle bar 3 and tighten the screw 1 temporarily. Attach the needle clamp 7 for cording and the needle 8 to the needle bar 3, then tighten the screw 9 firmly.

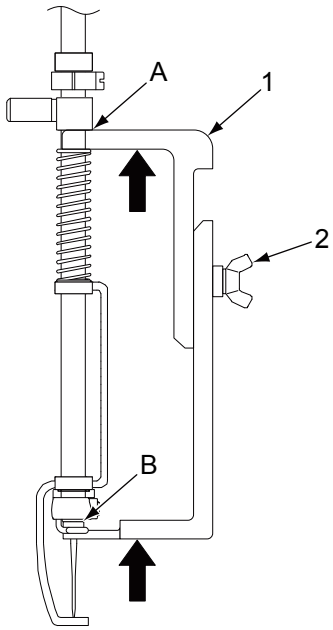


3-3. Adjustment of the lower dead point

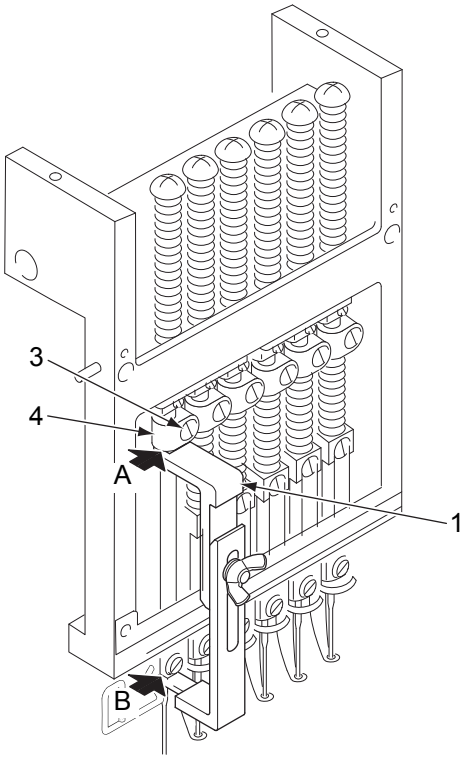
The needle bar connecting stud gauge (1 in the figure below) is required for the working here. For details, consult the distributor.

(1) Set the connecting stud gauge 1 to the needle bar except the last needle (Figure below is an example of 1st needle). Loosen the thumbscrew 2 and adjust the size of the connecting stud gauge to make no gap between sections A and B. Then tighten the thumbscrew 2.

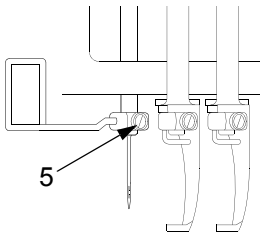




(2) (1)Set the needle bar connecting stud gauge 1 adjusted at above described (1) to the last needle bar. Loosen the screw 3 and push the needle bar connecting stud 4 to touch the needle bar connecting stud gauge 1, then face the screw 5 to about 30° right. Tighten the screw 3 with no gap between sections A and B.

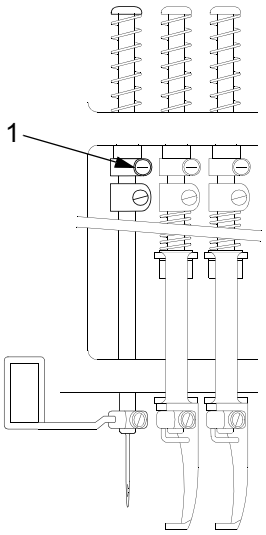


The screw 5 should face to the same direction as the next needle bar and the needle groove should face to the front.

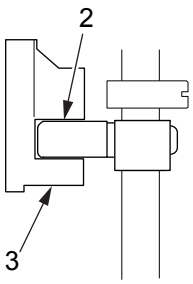


3-4. Adjustment of the upper dead point

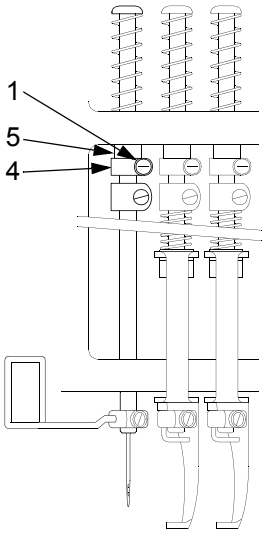
(1) Loosen the screw 1. Rotate the main shaft in the state of the needle bar connecting stud 2 connected to the reciprocator 3, and adjust the main shaft angle to 7°.



Viewing the needle bar case from side



(2) At the position where the upper dead point stopper 4 touches the cushion ring 5 lightly, tighten the screw 1.

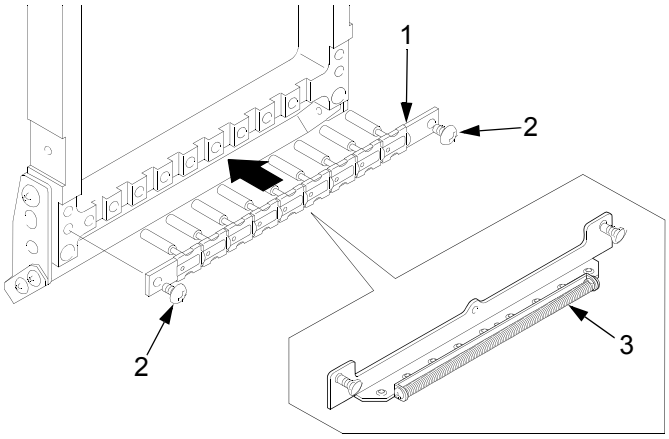


Tighten the screw 1 in the state of facing to the front.

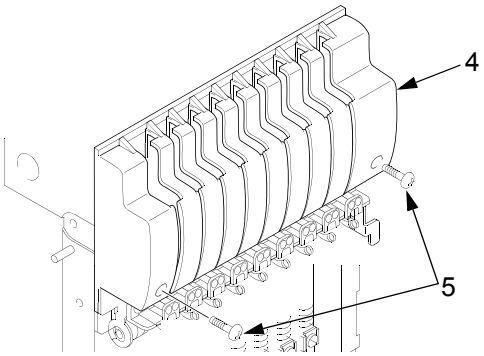
(3) Afterward, check if the needle bar moves smoothly. When it does not move smoothly or misjumping occurs, perform adjustment of (2) described above again.

3-5. Attaching of parts related

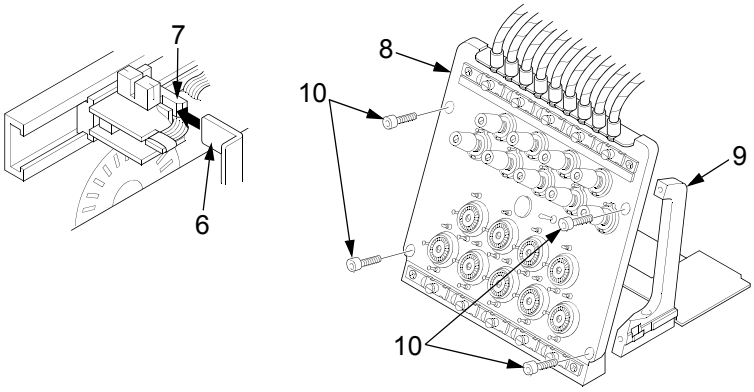
(1) Attach the upper thread locking device 1 and tighten the screw 2 (There may be the case of the lower thread guide 3 for KB-2M depending on the model).



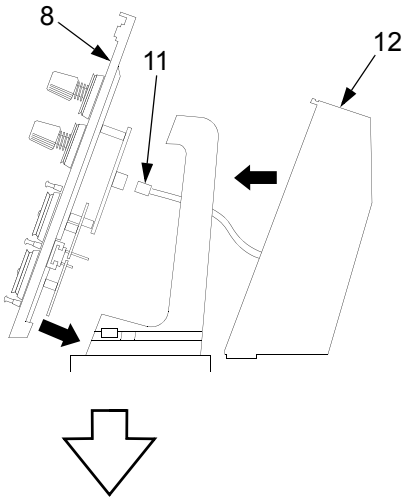
(2) Attach the top cover 4 and tighten the screw 5.



(3) Slide the needle bar case to the direction of the last needle, and insert the sensor arm 6 into the card bracket 7. Attach the tension base 8 to the bracket 9, then tighten the screw 10.



(4) Connect the harness 11 to the tension base 8 (The number of the harness 11 differs depending on model and/or head). Attach the tension base cover 12.



●In case you work at cording afterward, perform working of 2-3. of p.15 and after.

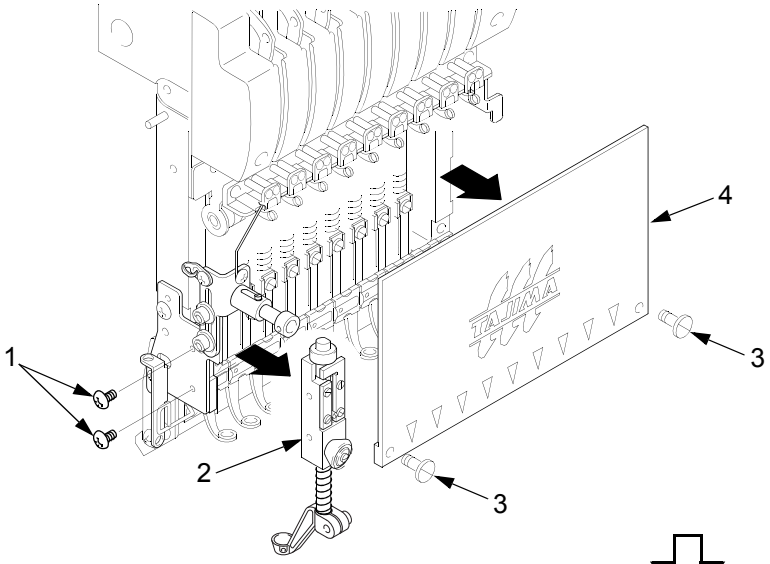
●In case you work at looping afterward, perform working of 2-3. of p.27 and after.

Chapter 6 Change of the device from Cording to Looping

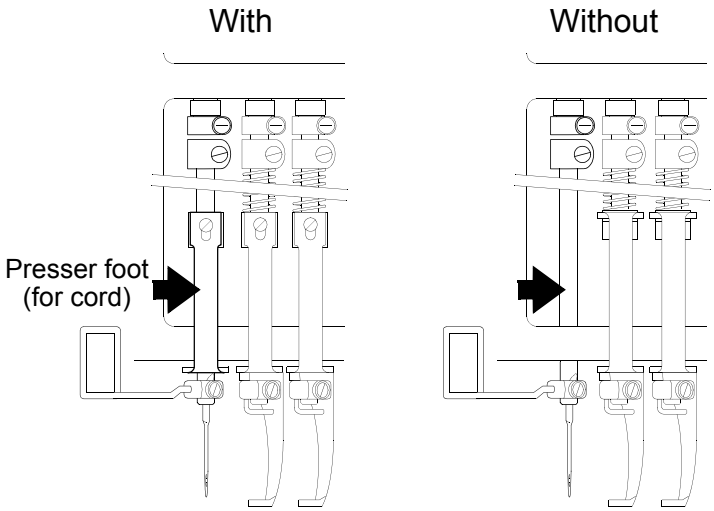
This chapter explains the case of the device L basically. In case of the device R, the direction becomes opposite but the procedure is same as the case of the device L.

1. Confirming of presser foot

Remove the screw 1 and detach the body 2. Remove the screw 3 to detach the face cover 4.



Confirm the existence/absence of presser foot (figure below) afterward.



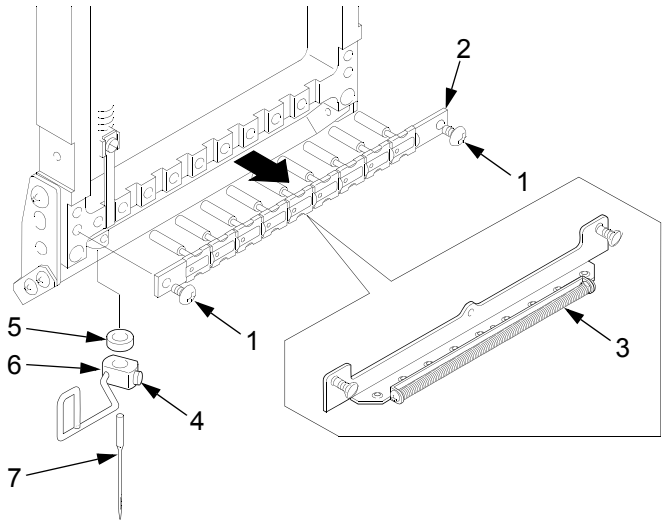
Perform working of 2. of p.26 and after.

Perform working of 3. of p.31 and after.

2. Model with presser foot for cording

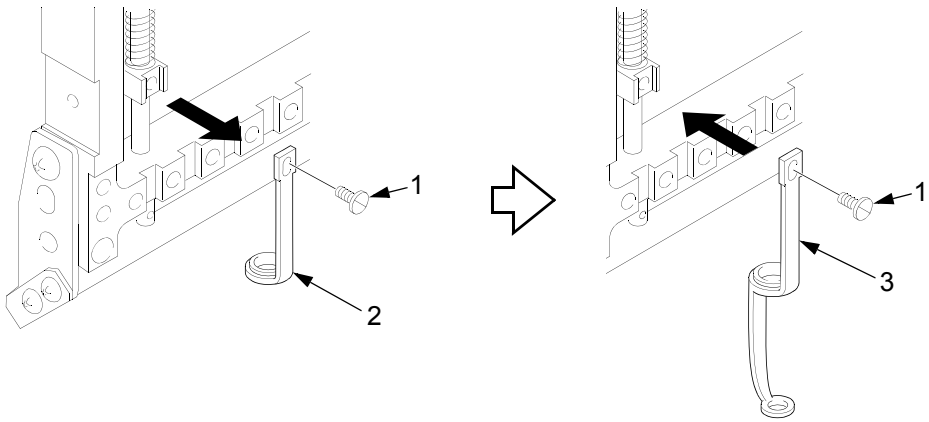
2-1. Detaching of parts related

Remove the screw 1 and detach the upper thread locking device 2 (There may be the case of the lower thread guide 3 for KB-2M depending on the model). Loosen the screw 4 and detach the cushion ring 5, the needle clamp 6 and the needle 7.

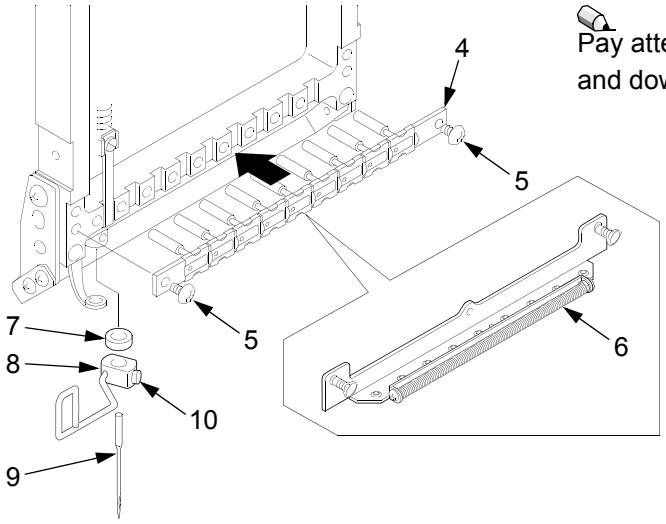


2-2. Change of the presser foot

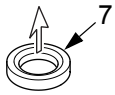
(1) Remove the screw 1 and detach the presser foot 2 for cording. Attach the presser foot 3 for noise-reduction type and tighten the screw 1.



(2) Attach the upper thread locking device 4 and tighten the screw 5 (There may be the case of the lower thread guide 6 for KB-2M depending on the model). Attach the cushion ring 7, the needle clamp 8 for cording and the needle 9. Then, tighten the screw 10.

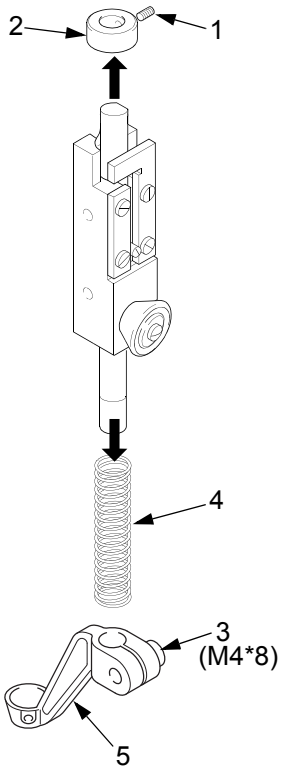


Pay attention to the direction (up and down) of the cushion ring 7.

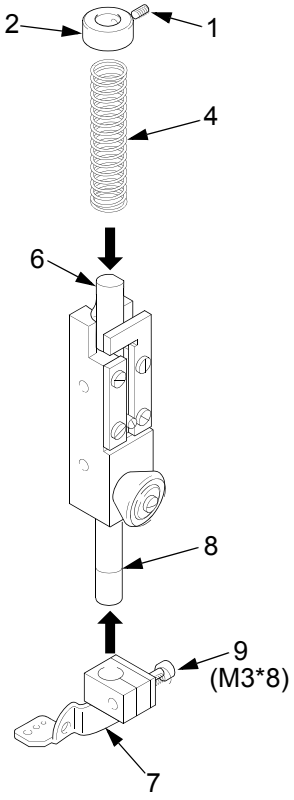


2-3. Change of cord presser

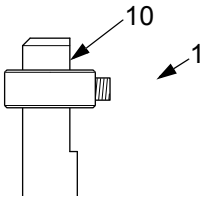
(1) Loosen the screw 1 and detach the collar 2. Loosen the screw 3 (M4*8) and remove the spring 4 and the cord presser 5 for cording.



(2) Fit the spring 4 and the collar 2 into the shaft 6 and tighten the screw 1. Lift the cord presser 7 for looping until it touches the step 8, and tighten the screw 9 (M3*8) temporarily.

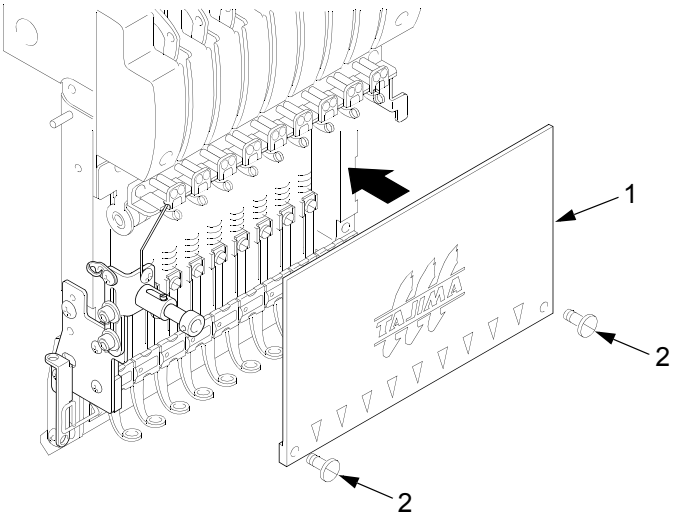


Touch the screw 1 to the flat face 10.

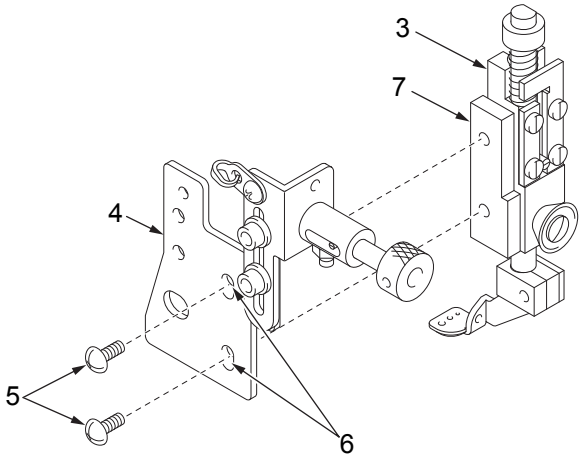


2-4. Attaching of the body

(1) Attach the face plate1 and tighten the screw 2.



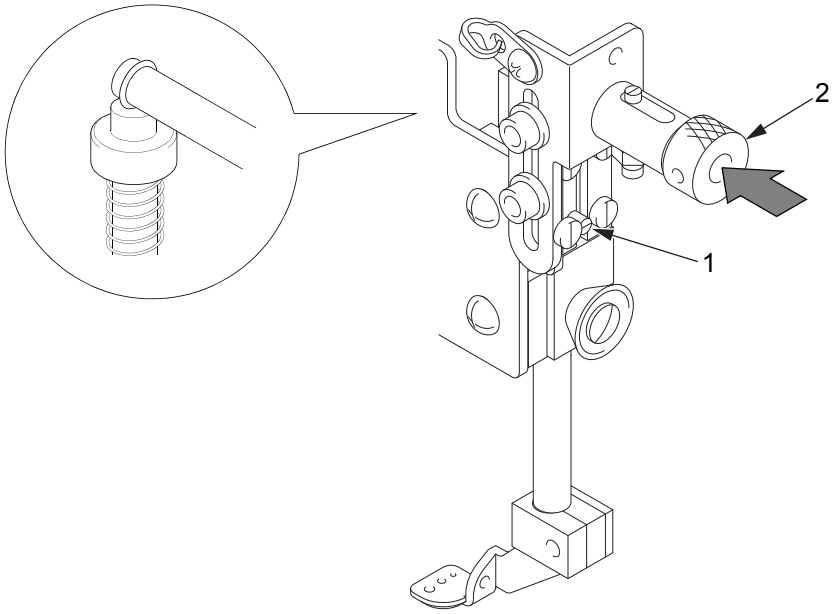
(2) Attach the body 3 to the base 4 and tighten the screw 5.



The spacer 7 is necessary only for 15-needles machine.

2-5. Adjustment of cord presser

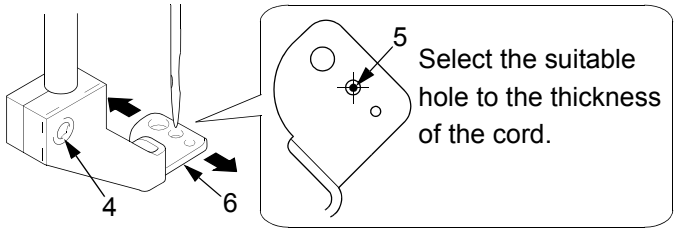
(1) Put the pin 1 in the groove, and thrust the clutch knob 2.



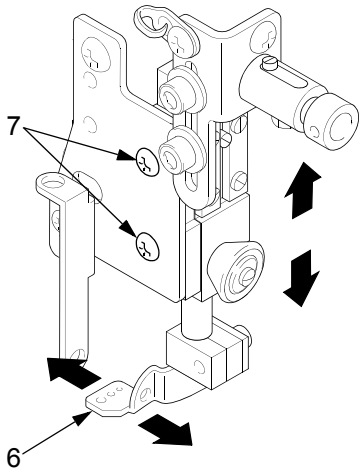
(2) Turn the main shaft counterclockwise to set the main shaft angle to around 180°. Lower the needle bar by hand.

Lower one after another needle of the heads to be adjusted (to prevent breakage of the tip of the needle).

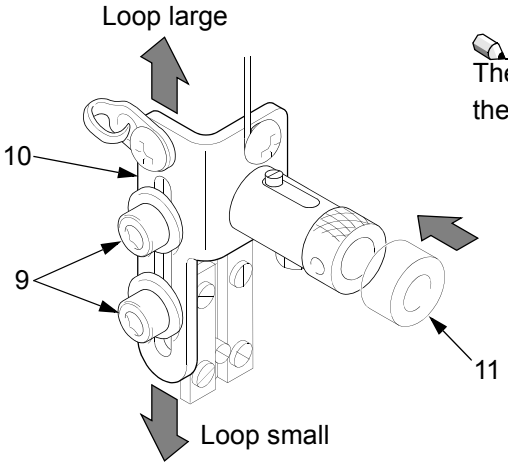
(3) Regarding crosswise direction, loosen the screw 4 to adjust the position of the cord presser 6 so that the needle locates at the center 5 of the hole.



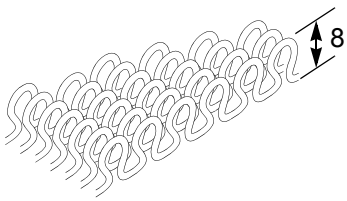
(4) Regarding lengthwise and up/down direction, loosen the screw 7 to adjust the position of the cord presser 6.



(5) To adjust the size of loop 8, loosen the screw 9 and change the height of the stopper guide 10. After the adjustment, thrust the stopper collar 11.



The size of loop 8 will change by changing the height of the stopper guide 10.



This completes the works.

3. Model without presser foot

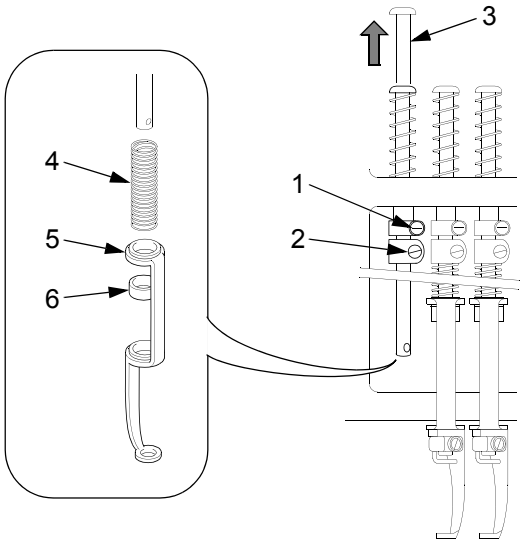
The needle bar connecting stud gauge is required for the working here (=>p.21). Consult the distributor before working.

3-1. Detaching of parts related

Remove the parts related referring to 3-1. of p.19.

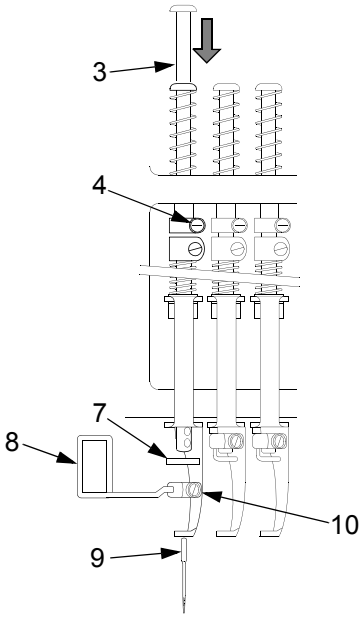
3-2. Attaching of the presser foot

(1) Loosen the screw 1 and 2, then pull up the needle bar 3. Attach the spring 4, the presser foot 5 and the cushion ring 6.

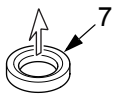


The presser foot 5 is the same part as the one attached to the next needle bar.

(2) Lower the needle bar 3 and tighten the screw 4 temporarily. Attach the cushion ring 7, the needle clamp 8 for cording, and needle 9 to the needle bar 3, then tighten the screw 10 firmly.



Pay attention to the direction (up and down) of the cushion ring 7.



After that, perform working of 3-3. of p.21 and after.

Chapter 7 Attaching the device (cording) to your machine

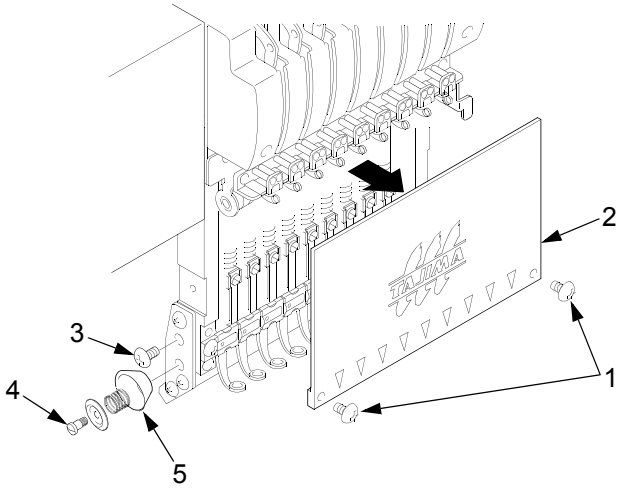
When attaching the device for the first time, follow the procedure below.

This chapter explains the case of the device L basically. In case of the device R, the direction becomes opposite but the procedure is same as the case of the device L.

1. Confirming of presser foot

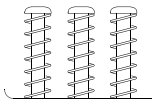
1-1. Detaching of parts related

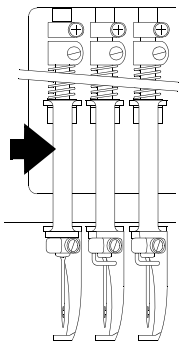
Remove the screw 1 and detach the face plate 2. Remove the screw 3. Remove the screw 4 and detach the thread suspender disk 5.



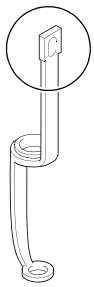
1-2. Confirming of presser foot

Confirm the presser foot type equipped (figure below) afterward.



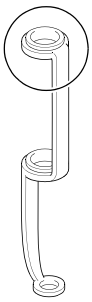


Noise-reduction type



Perform working of 2. of p.33 and after.

Standard type

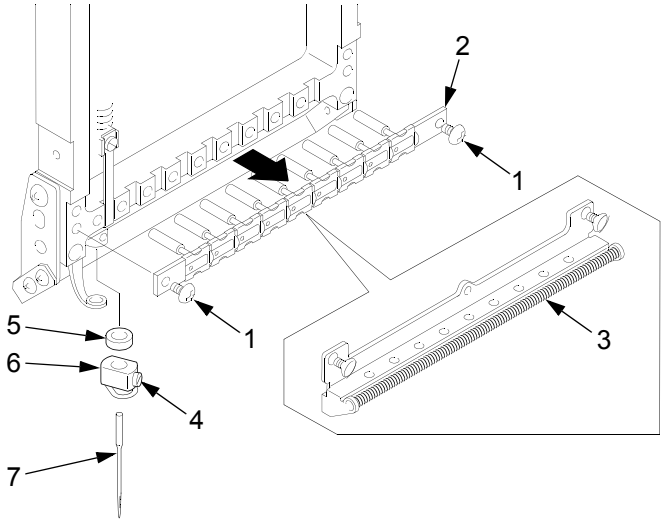


Perform working of 3. of p.39 and after.

2. Model with presser foot for noise-reduction type

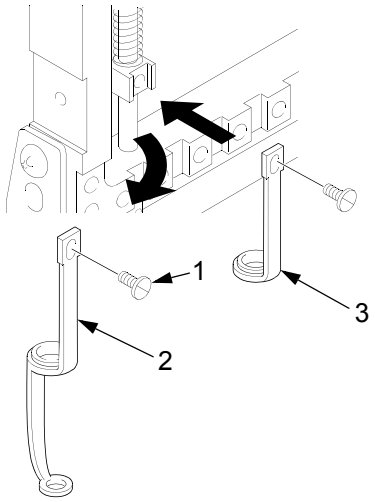
2-1. Detaching of parts related

Remove the screw 1 and detach the upper thread locking device 2 (There may be the case of the lower thread guide 3 depending on the model). Loosen the screw 4 and detach the cushion ring 5, the needle clamp 6 and the needle 7.



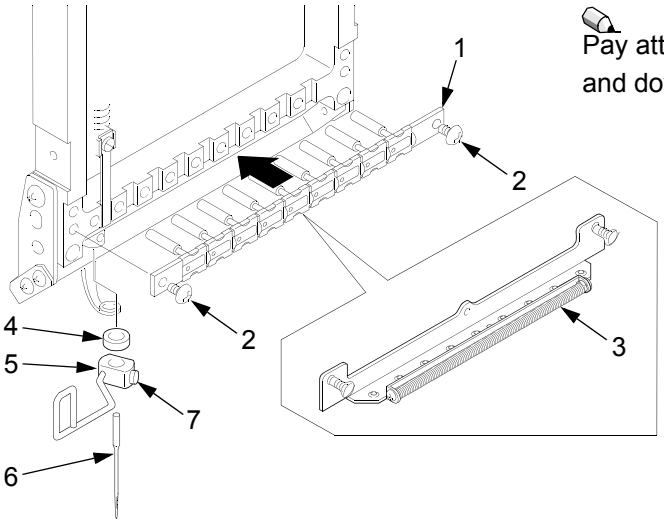
2-2. Change of the presser foot

Remove the screw 1 and detach the presser foot 2 for noise-reduction type. Attach the presser foot 3 for cording and tighten the screw 1.

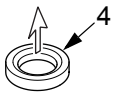


2-3. Attaching of parts related

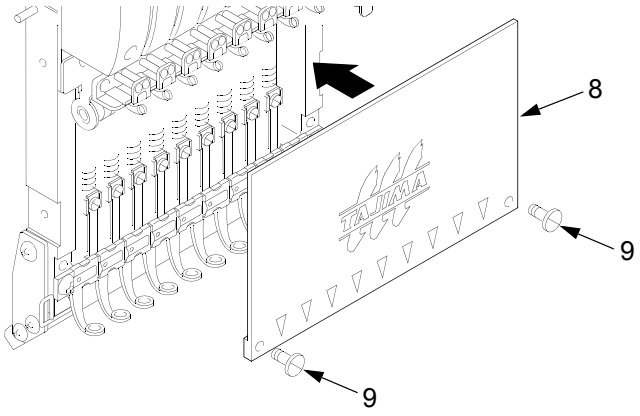
(1) Attach the upper thread locking device 1 and tighten the screw 2 (There may be the case of the lower thread guide 3 for KB-2M depending on the model). Attach the cushion ring 4, the needle clamp 5 for cording and the needle 6. Then, tighten the screw 7.



Pay attention to the direction (up and down) of the cushion ring 4.

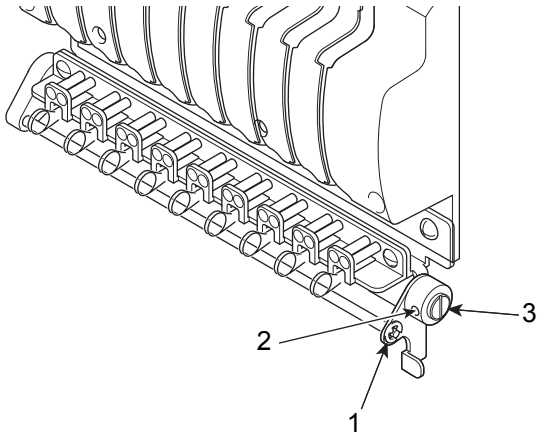


(2) Attach the face plate 8 and tighten the screw 9.

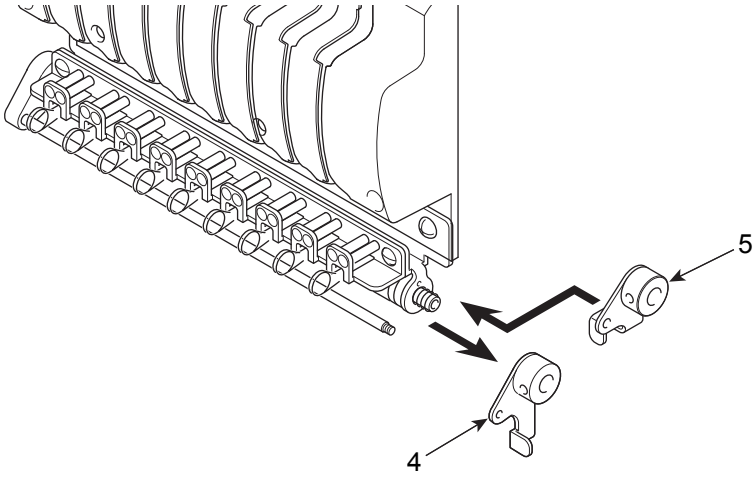


2-4. Change of adjusting lever (The device R only)

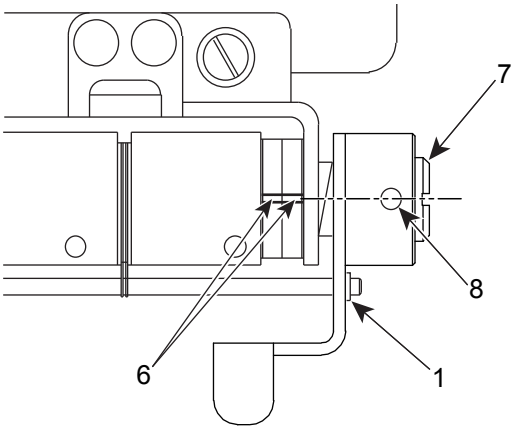
(1) Detach the E-ring 1. Loosen the screw 2 to remove the screw 3.



(2) Detach the adjusting lever [S] 4 and attach the adjusting lever B [S] 5.



(3) Tighten the screw 7 while the ratchet mark 6 faces to the front. Tighten the screw 8 while the screw 8 faces to the front (on the same line against the ratchet mark 6). Attach the E-ring 1.

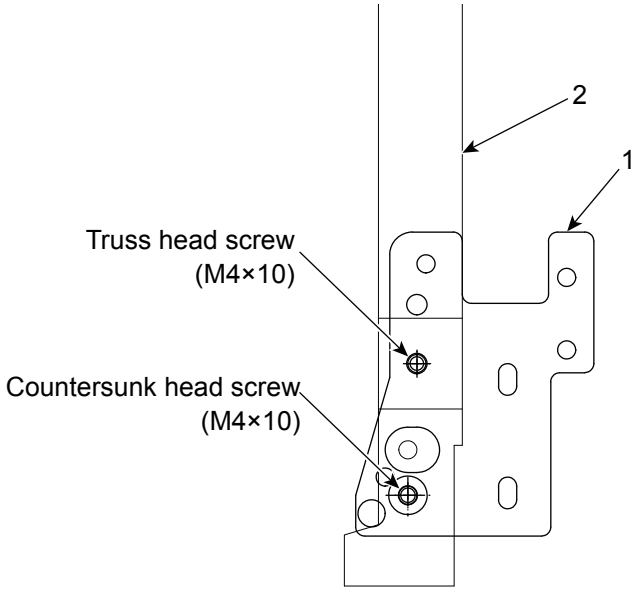


2-5. Attaching of device

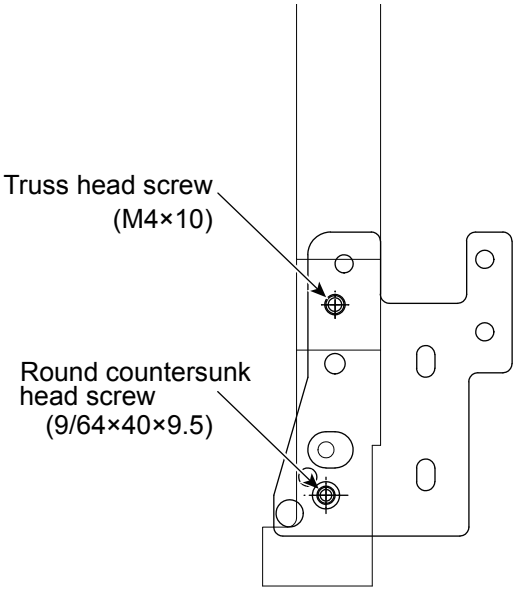
The way of fixing the device differs depending on the model. To attach the device, the spacer or the collar is necessary. Refer also to the parts list at the end of this manual.

(1) Attach the device 1 to the needle bar case 2.

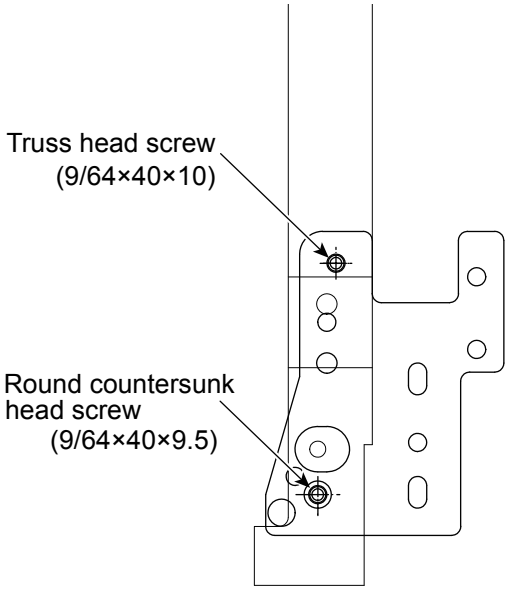
TFGN II, TFGS
TFMX, TFMS, TWMX-C



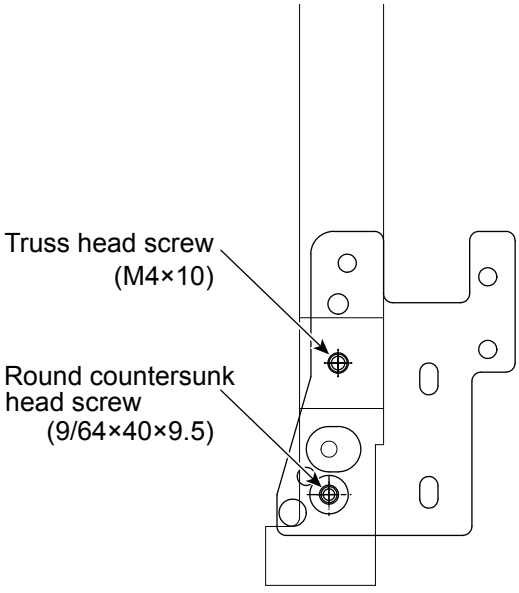
TLMX mixed type
TCMX mixed type



TEMX-C (Single head machine)
TEJTII-C

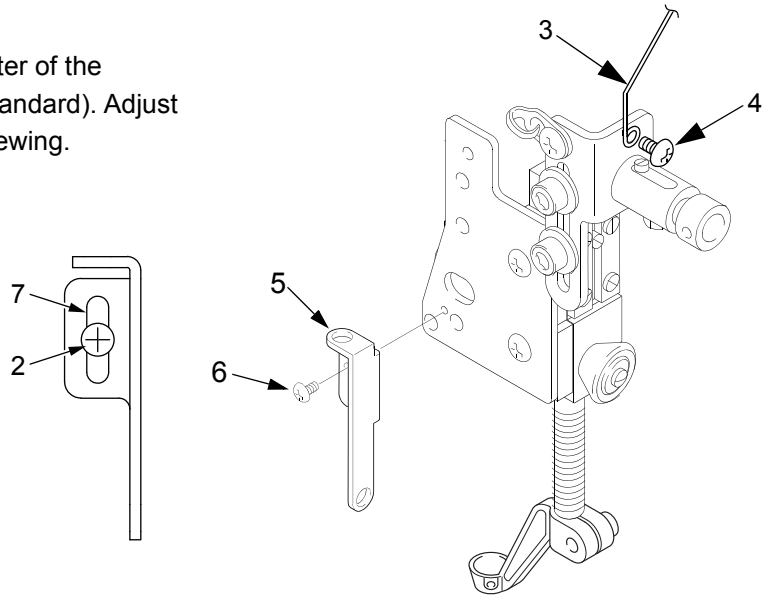


TEMX-C (Multi head machine)

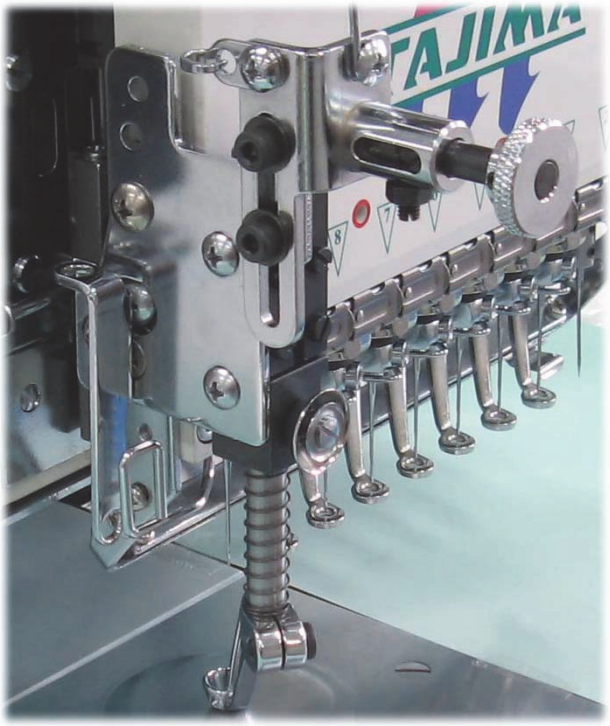


(2) Attach the cord thread guide 3 and tighten the screw 4. Attach the cord guide 5 and tighten the screw 6.

Fix the screw 6 at the center of the elongated hole 7 (rough standard). Adjust according to finishing of sewing.



An example of attaching



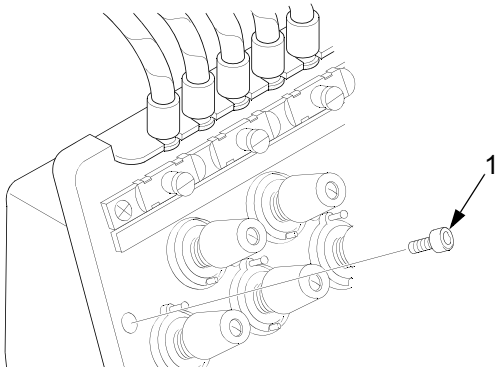
●In case you work at cording afterward, perform working of 2-5. of p.17 and after.

●In case you work at looping afterward, perform working of 2-5. of p.29 and after.

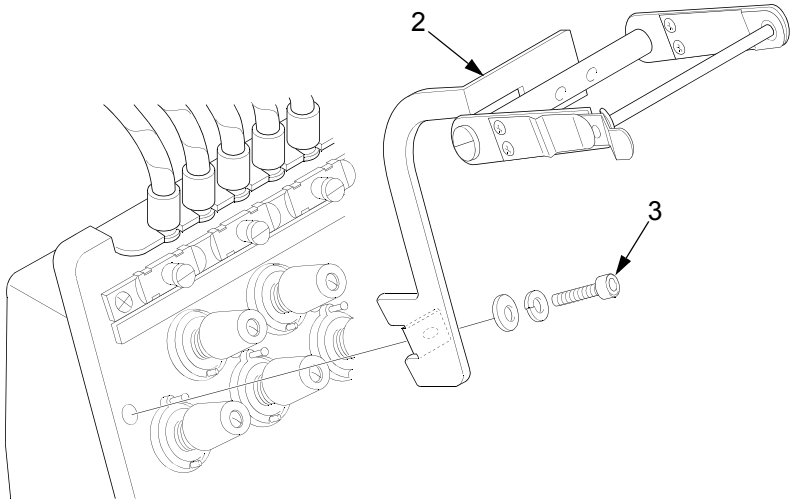
2-6. Attaching of bobbin bracket set

In case of rotary-type tension base

(1) Remove the screw 1.

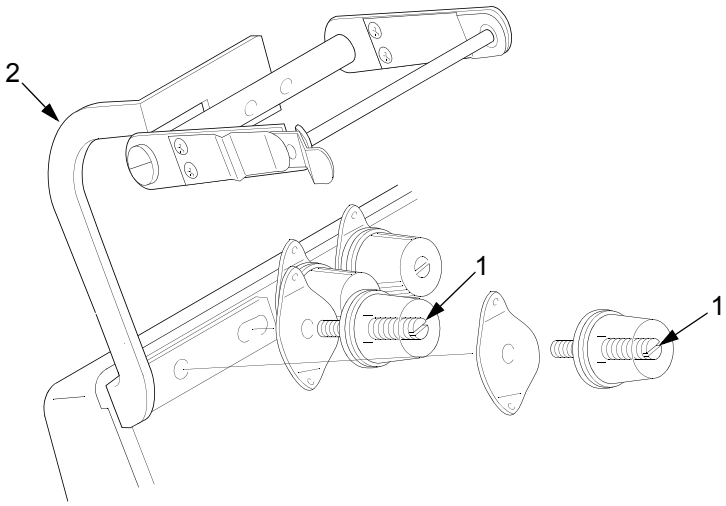


(2) Attach the bobbin bracket set 2 and tighten the screw 3.



In case of normal tension base

Fix the bobbin bracket set 2 with the tension stud 1 (two spots).

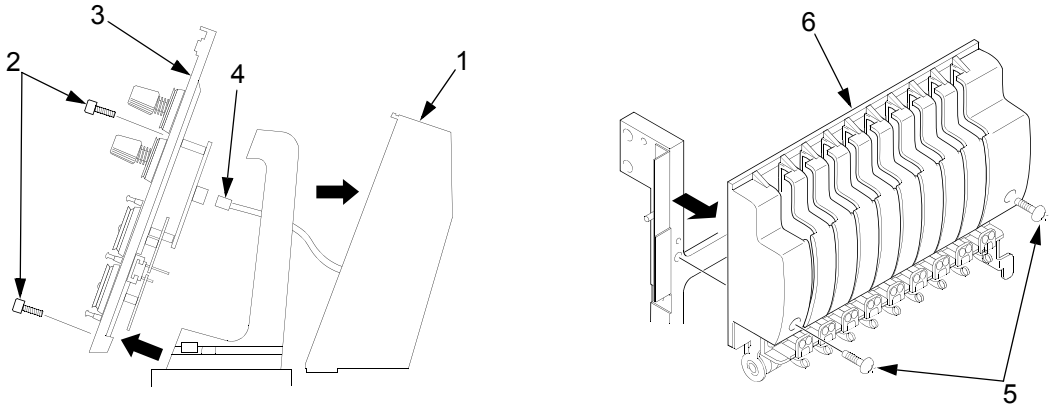


3. Model with presser foot for standard type

3-1. Detaching of parts related

Detach the tension base cover 1. Remove the screw 2 and detach the tension base cover 3. Detach the connector 4. Remove the screw 5 and detach the top cover 6.

The shape may be different depending on the model (figure below).



Follow the procedure below afterward.

3-2. Detaching of the presser foot(=>p.20)

3-3. Adjustment of the lower dead point(=>p.21)

3-4. Adjustment of the upper dead point(=>p.22)

3-5. Attaching of parts related(=>p.23)

3-6. Change of adjusting lever (The device R only)(=>p.35)

3-7. Attaching of device(=>p.36)

3-8. Attaching of bobbin bracket set(=>p.38)

This completes the works.

Chapter 8 Attaching the device (looping) to your machine

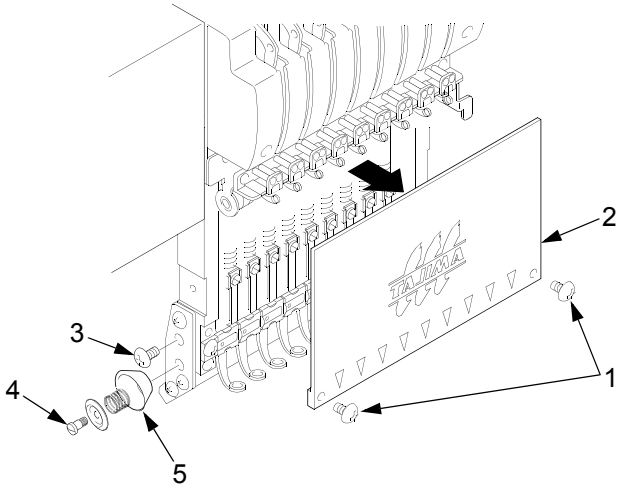
When attaching the device for the first time, follow the procedure below.

This chapter explains the case of the device L basically. In case of the device R, the direction becomes opposite but the procedure is same as the case of the device L.

1. Confirming of presser foot

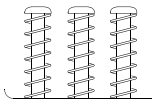
1-1. Detaching of parts related

Remove the screw 1 and detach the face plate 2. Remove the screw 3. Remove the screw 4 and detach the thread suspender disk 5.

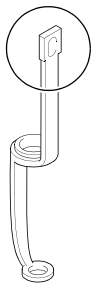


1-2. Confirming of presser foot

Confirm the presser foot type equipped (figure below) afterward.

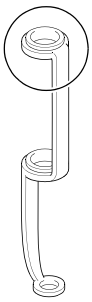


Noise-reduction type

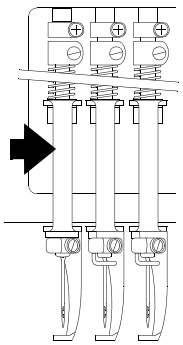


Perform working of 2. of p.41 and after.

Standard type



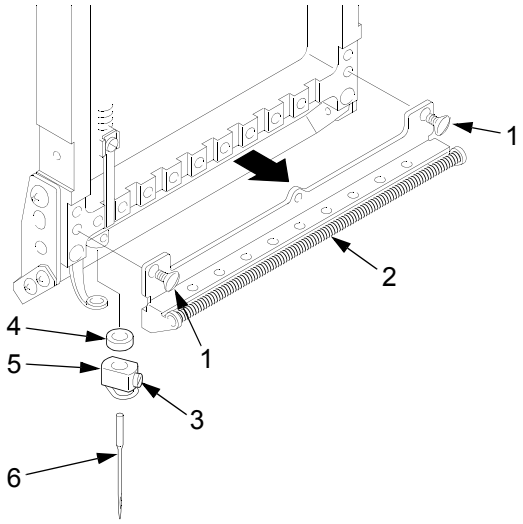
Perform working of 3. of p.42 and after.

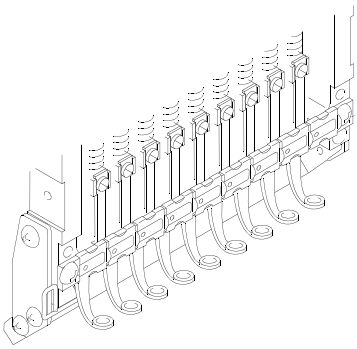


2. Model with presser foot for noise-reduction type

2-1. Change of parts related

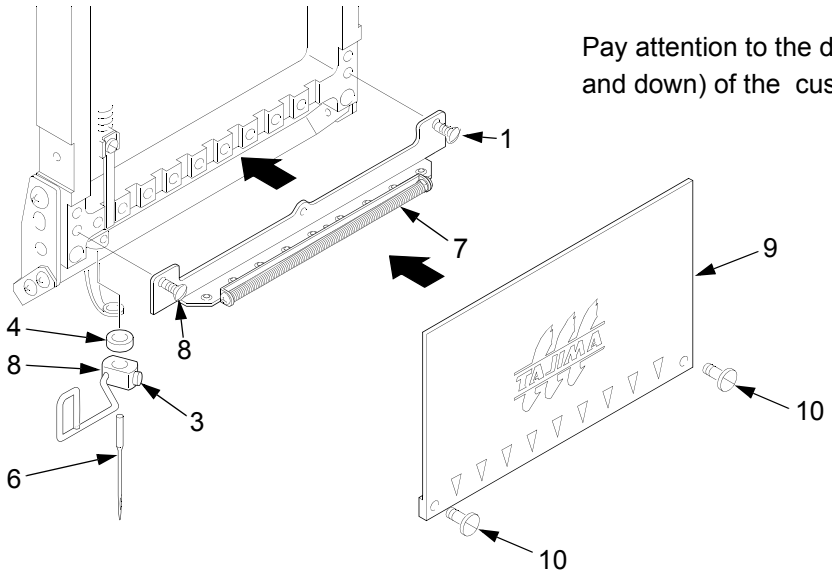
(1) Remove the screw 1 and detach the lower thread guide 2. Loosen the screw 3 and detach the cushion ring 4, the needle clamp 5 and the needle 6.



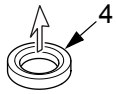


In case of this type, loosen the screw 3 to detach the cushion ring 4, the needle clamp 5 and the needle 6.

(2) Attach the lower thread guide 7 for KB-2M and tighten the screw 1. Attach the cushion ring 4, the needle clamp 8 for cording and the needle 6 and tighten the screw 3. Attach the 9 and tighten the screw 10.



Pay attention to the direction (up and down) of the cushion ring 4.



Follow the procedure below afterward.

2-2. Change of adjusting lever (The device R only)(=>p.35)

2-3. Attaching of device(=>p.36)

2-4. Attaching of bobbin bracket set(=>p.38)

This completes the works.

3. Model with presser foot for standard type

3-1. Change of parts related(=>p.41)

3-2. Change of adjusting lever (The device R only)(=>p.35)

3-3. Attaching of device(=>p.36)

3-4. Attaching of bobbin bracket set(=>p.38)

This completes the works.

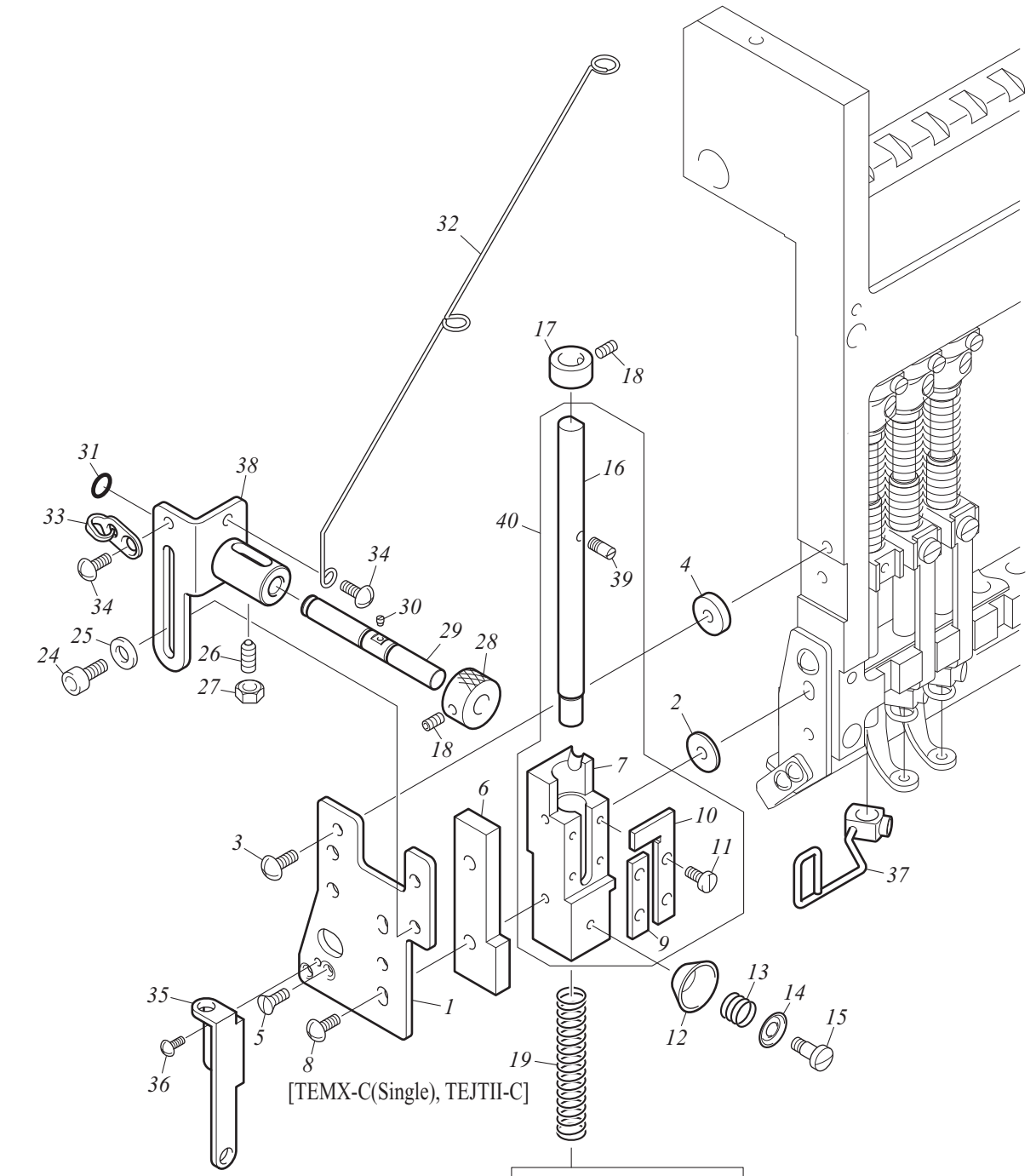
CONTENTS

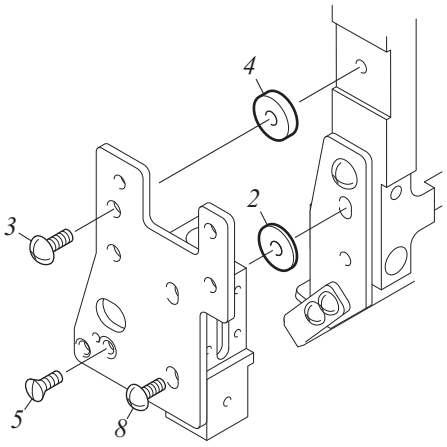
- CORDING DEVICE MAIN BODY L.....*EK- 1L*
- CORDING DEVICE MAIN BODY R.....*EK- 1R*
- BOBBIN/NEEDLE BAR CASE.....*EK- 2*

*Regarding the part number that contains description of @, the part differs depending on model, spec. etc.
*When you place an order of such a part, please also inform us of your model, embroidery space and manufacturing number of the machine.

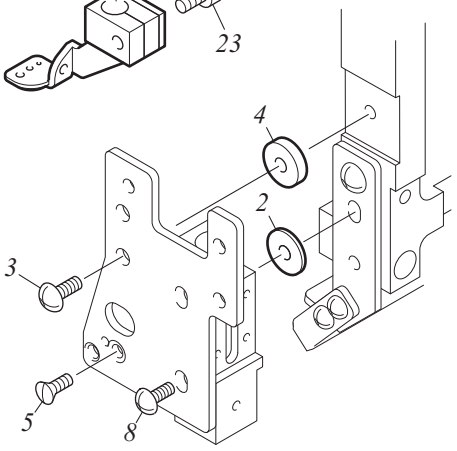
Ex.	TEJTⅡ-C1501	(360 x 500)S	No.01234
	[Model]	[Emb. Space]	[Mfg. No.]

CORDING DEVICE MAIN BODY L





[TLMX/TCMX Mix]



[TFGN/GS/MX/MS Series, TEMX-C(Multi), TWMX-C]

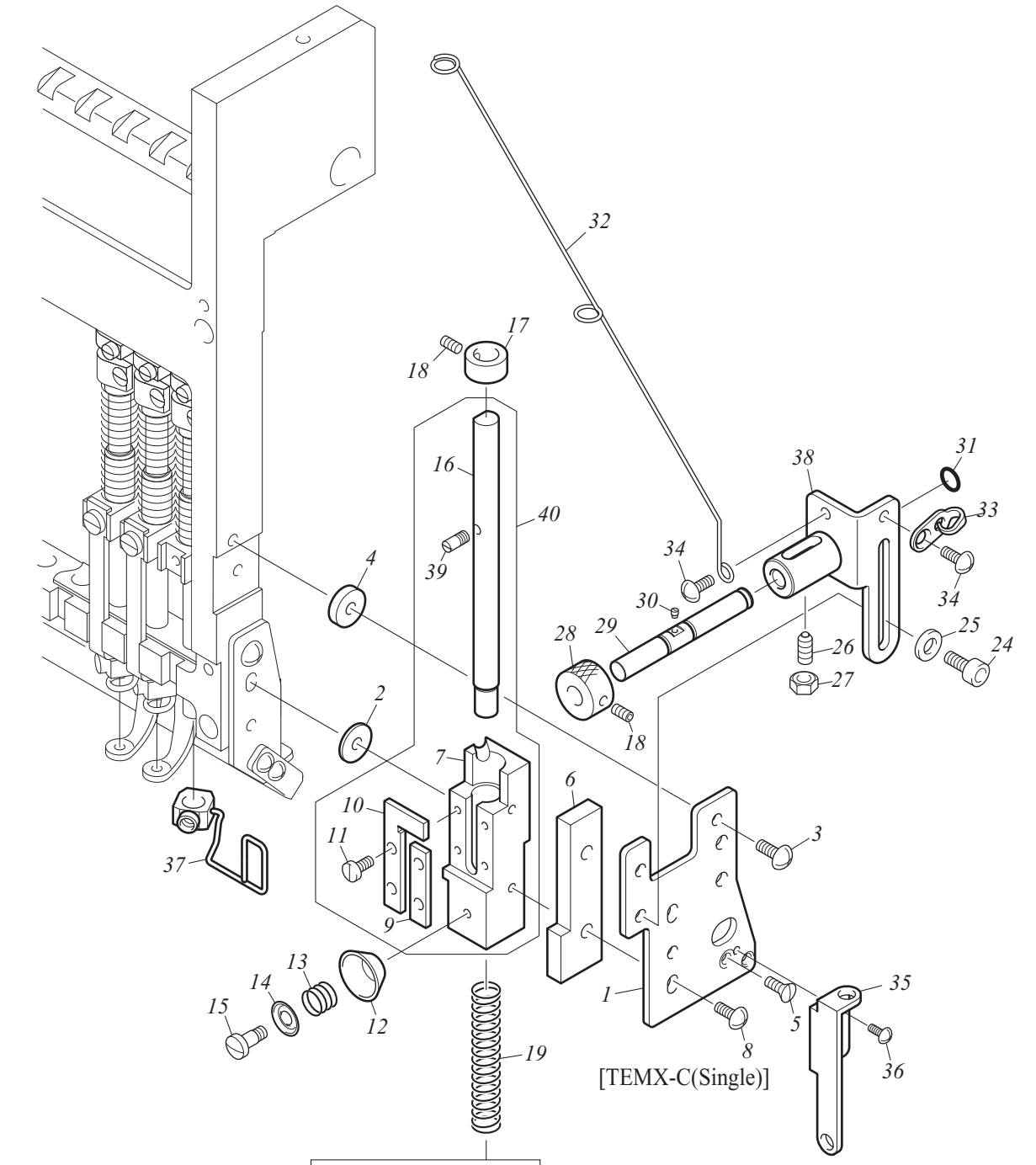
CORDING DEVICE MAIN BODY L

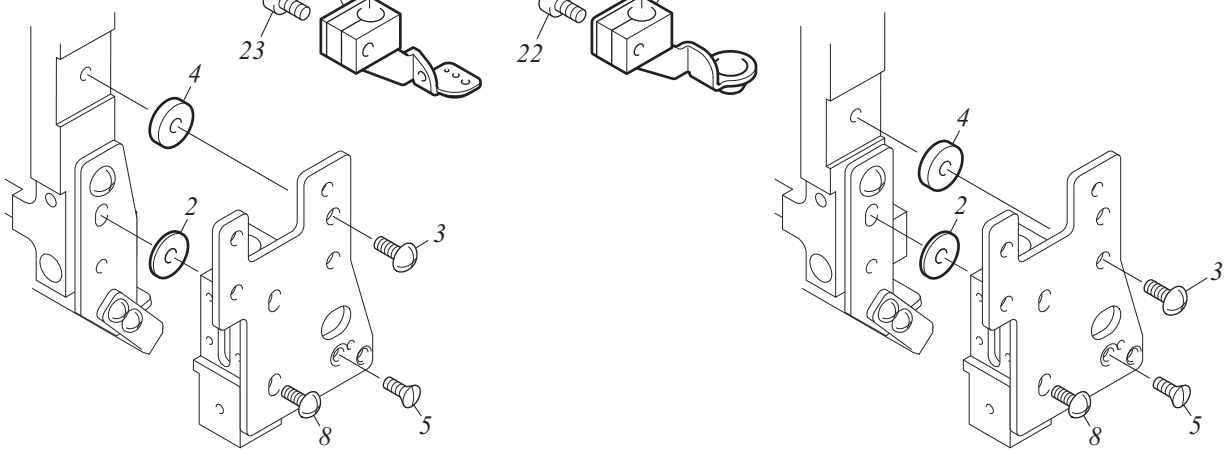
EK-1L

No.	Part Name	Part No.	Remark
1	BASE :CORD PRESSER :47 :L	0L113024L000	TFGN/TFGS/TFMX/TFMS Series, TEMX-C(Multi), TWMX-C
1	BASE :CORD PRESSER :45 :L	0L113012L010	TLMX/TCMX MIX
1	BASE :CORD PRESSER :50B :L	0L113037L010	TEMX-C(Single), TEJTII-C
2	SPACER :4.2MM DIA.	0L1130320000	
3	TRUSS HEAD SCREW :9/64*40*10	SA30741001CL	TEMX-C(Single), TEJTII-C
3	TRUSS HEAD SCREW :M4*10	S130041001SD	TFGN/TFGS/TFMX/TFMS Series, TLMX/TCMX MIX, TEMX-C(Multi), TWMX-C
4	SPACER :3.8MM DIA.	0L1130310010	TEMX-C(Single), TEJTII-C
4	COLLAR :NO.1 :4.2MM DIA.	502542010010	TFGN/TFGS/TFMX/TFMS Series, TLMX/TCMX MIX, TEMX-C(Multi), TWMX-C
5	ROUND COUNTERSUNK HEAD SCREW :9/64*40*9.5	SA53740951CL	TLMX/TCMX MIX, TEMX-C, TEJTII-C
5	COUNTERSUNK HEAD SCREW :M4*10	S150041002SD	TFGN/TFGS/TFMX/TFMS Series, TWMX-C
6	SPACER	0L1130180000	15-Needle
7	GUIDE PIPE :CORD :L	0L113029L000	
8	TRUSS HEAD SCREW :9/64*6	SA30740601CL	
8	TRUSS HEAD SCREW :9/64*40*10	SA30741001CL	15-Needle
9	GUIDE :CORD PILOT ROD :L	0L1130340000	
10	GUIDE :CORD PILOT ROD :R	0L1130350000	
11	FLAT FILLISTER HEAD SCREW :1/8*44*5	SA41730501CN	
12	THREAD SUSPENDER DISK	0B0200050000	
13	COMPRESSION SPRING :0.3MM DIA.	507603020010	
14	PRESSER :THREAD SUSPENDER SPRING	0B0200060000	
15	STEPPED SCREW :NO.1 :9/64*9	512153060000	
16	ROD :CORD GUIDE	0L1130360020	
17	STOPPER COLLAR :7.24MM DIA.	502101020010	
18	HEXAGON SOCKET HEAD SET SCREW :M3*3	S170030301TN	
19	COMPRESSION SPRING :0.5MM DIA.	507605140010	
20	CORD PRESSER :NO.1:L :1.1-2.5MM DIA.	0L113038@010	Cording
21	CORD PRESSER :NO.2 :L[S]	0L113028LS20	Looping
22	HEXAGON SOCKET HEAD CAP SCREW :M4*8	S120040802TN	
23	HEXAGON SOCKET HEAD CAP SCREW :M3*8	S120030802TN	
24	HEXAGON SOCKET HEAD CAP SCREW :M4*5	S120040502TN	
25	PLAIN WASHER :M4*10*T0.8	S301041002SC	
26	BALL PLUNGER :BST4	615400020000	
27	HEXAGON NUT TYPE 1 :M4	S210040001SC	
28	KNOB :CLUTCH LEVER	080310170000	
29	SHAFT :STOPPER	0L1130200000	
30	SCREW WITH PIN :NO.5 :1/8-2.5	513550010000	
31	O-RING :S-5	612200100000	
32	THREAD GUIDE :CORD	0L1130300010	
33	THREAD GUIDE :NO.2	516202020000	
34	TRUSS HEAD SCREW :9/64*6	SA30740601CL	
35	CORD GUIDE :L	0L113001L010	
36	TRUSS HEAD SCREW :9/64*4	SA30740401CL	
37	NEEDLE CLAMP :CORDING DEVICE :L[S]	0L113033LS10	
37	NEEDLE CLAMP :CORDING DEVICE :15-NEEDLE :L[S]	0L113015LS20	
38	GUIDE :STOPPER :L[S]	0L113019LS00	
38	STOPPER GUIDE :15-NEEDLE :L[S]	0L113021LS00	
39	SCREW WITH PIN :NO.4 :M3-6	0L1130390000	
40	GUIDE PIPE :CORD :L[A]	0L113029LA00	
41			
42			

Note: As for parts with mark @, please follow our instructions on Table of Contents in your parts order. (PT03)

CORDING DEVICE MAIN BODY R (EXCLUDING TEJTII-C)





CORDING DEVICE MAIN BODY R (EXCLUDING TEJTII-C) *EK-1R*

No.	Part Name	Part No.	Remark
1	BASE :CORD PRESSER :47 :R	0L113024R000	TFGN/TFGS/TFMX/TFMS Series, TEMX-C(Multi), TWMX-C
1	BASE :CORD PRESSER :45 :R	0L113012R010	TLMX/TCMX MIX
1	BASE :CORD PRESSER :50B :R	0L113037R010	TEMX-C(Single)
2	SPACER :4.2MM DIA.	0L1130320000	
3	TRUSS HEAD SCREW :9/64*40*10	SA30741001CL	TEMX-C(Single)
3	TRUSS HEAD SCREW :M4*10	S130041001SD	TFGN/TFGS/TFMX/TFMS Series, TLMX/TCMX MIX, TEMX-C(Multi), TWMX-C
4	SPACER :3.8MM DIA.	0L1130310010	TEMX-C(Single)
4	COLLAR :NO.1 :4.2MM DIA.	502542010010	TFGN/TFGS/TFMX/TFMS Series, TLMX/TCMX MIX, TEMX-C(Multi), TWMX-C
5	ROUND COUNTERSUNK HEAD SCREW :9/64*40*9.5	SA53740951CL	TLMX/TCMX MIX, TEMX-C
5	COUNTERSUNK HEAD SCREW :M4*10	S150041002SD	TFGN/TFGS/TFMX/TFMS Series, TWMX-C
6	SPACER	0L1130180000	15-Needle
7	GUIDE PIPE :CORD :R	0L113029R000	
8	TRUSS HEAD SCREW :9/64*6	SA30740601CL	
8	TRUSS HEAD SCREW :9/64*40*10	SA30741001CL	15-Needle
9	GUIDE :CORD PILOT ROD :L	0L1130340000	
10	GUIDE :CORD PILOT ROD :R	0L1130350000	
11	FLAT FILLISTER HEAD SCREW :1/8*44*5	SA41730501CN	
12	THREAD SUSPENDER DISK	0B0200050000	
13	COMPRESSION SPRING :0.3MM DIA.	507603020010	
14	PRESSER :THREAD SUSPENDER SPRING	0B0200060000	
15	STEPPED SCREW :NO.1 :9/64*9	512153060000	
16	ROD :CORD GUIDE	0L1130360020	
17	STOPPER COLLAR :7.24MM DIA.	502101020010	
18	HEXAGON SOCKET HEAD SET SCREW :M3*3	S170030301TN	
19	COMPRESSION SPRING :0.5MM DIA.	507605140010	
20	CORD PRESSER :NO.1 :R :1.1-2.5MM DIA.[S]	0L113041@S00	Cording
21	CORD PRESSER :NO.2 :R[S]	0L113028RS20	Looping
22	HEXAGON SOCKET HEAD CAP SCREW :M4*8	S120040802TN	
23	HEXAGON SOCKET HEAD CAP SCREW :M3*8	S120030802TN	
24	HEXAGON SOCKET HEAD CAP SCREW :M4*5	S120040502TN	
25	PLAIN WASHER :M4*10*T0.8	S301041002SC	
26	BALL PLUNGER :BST4	615400020000	
27	HEXAGON NUT TYPE 1 :M4	S210040001SC	
28	KNOB :CLUTCH LEVER	080310170000	
29	SHAFT :STOPPER	0L1130200000	
30	SCREW WITH PIN :NO.5 :1/8-2.5	513550010000	
31	O-RING :S-5	612200100000	
32	THREAD GUIDE :CORD	0L1130300010	
33	THREAD GUIDE :NO.2	516202020000	
34	TRUSS HEAD SCREW :9/64*6	SA30740601CL	
35	CORD GUIDE :R	0L113001R010	
36	TRUSS HEAD SCREW :9/64*4	SA30740401CL	
37	NEEDLE CLAMP :CORDING DEVICE :R[S]	0L113033RS10	
37	NEEDLE CLAMP :CORDING DEVICE :15-NEEDLE :R[S]	0L113015RS20	
38	GUIDE :STOPPER :R[S]	0L113019RS00	
38	STOPPER GUIDE :15-NEEDLE :R[S]	0L113021RS00	
39	SCREW WITH PIN :NO.4 :M3-6	0L1130390000	
40	GUIDE PIPE :CORD :R[A]	0L113029RA00	
41			
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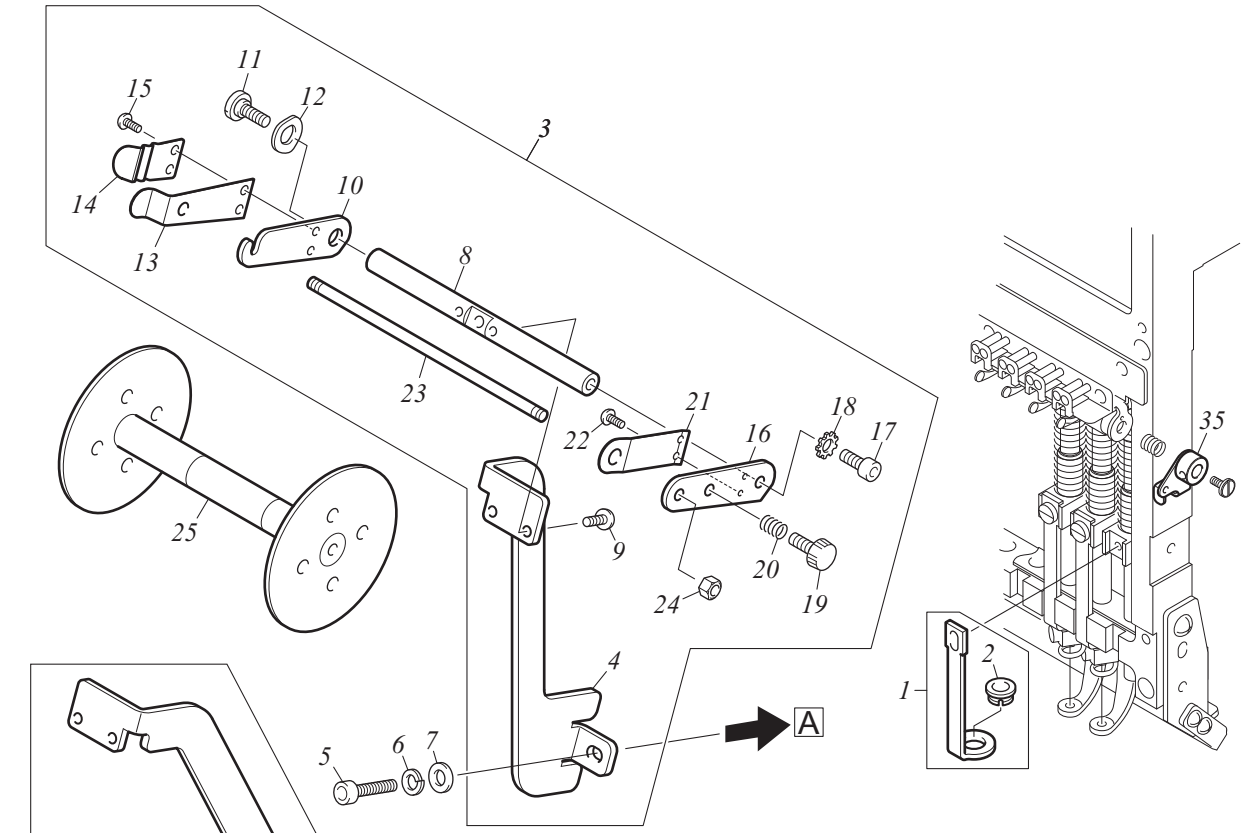
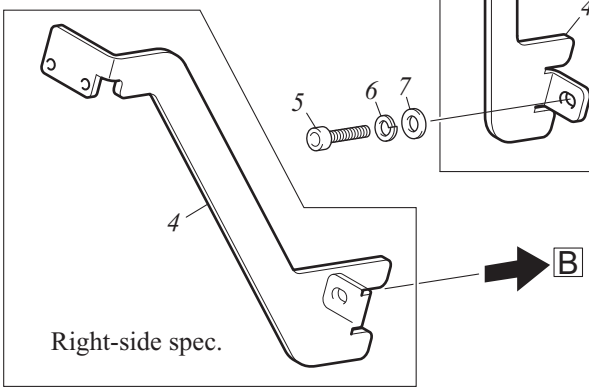
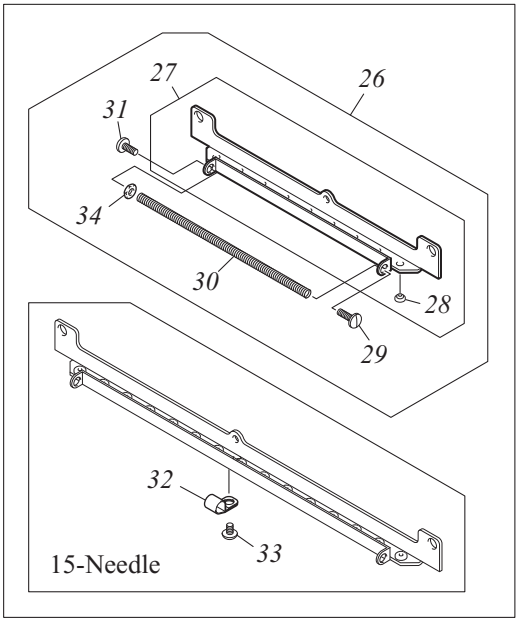
Note: As for parts with mark @, please follow our instructions on Table of Contents in your parts order. (PT03)

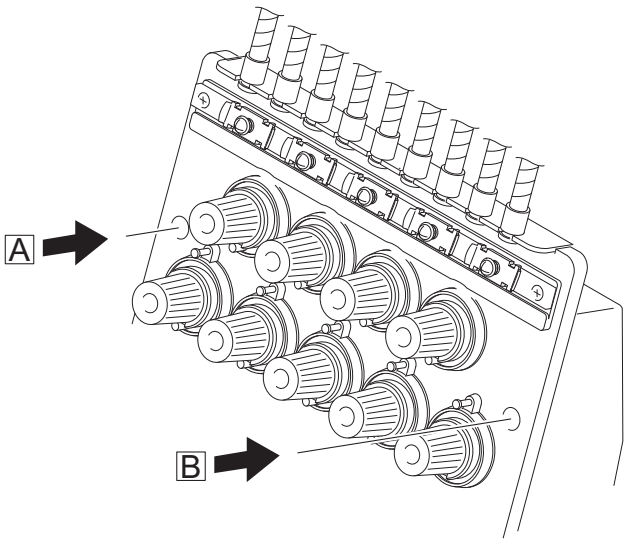
BOBBIN/NEEDLE BAR CASE





TEJTII-C, TEMX-C (Single)





BOBBIN / NEEDLE BAR CASE

No.	Part Name	Part No.	Remark
1	PRESSER FOOT :CORDING[A]	0L1130080A00	TLMX/TCMX MIX
1	PRESSER FOOT :CORD[A]	0L1130230A00	TFGN/TFMX/TFMS Series, TEMX-C, TWMX-C, TEJTII-C
2	SPLIT COLLAR :PRESSER FOOT	090460040030	
3	BOBBIN BRACKET L-SIDE :ROTARY :KB2	ULA1L0000100	L-side spec.
3	BOBBIN BRACKET R-SIDE :ROTARY :KB2	ULA1R0000100	R-side spec. TFGN/TFMX/TFMS Series, TLMX/TCMX MIX, TEMX-C, TWMX-C
4	BRACKET :NO.2 :BOBBIN HOLDER :L	0L113014L000	L-side spec.
4	BRACKET :NO.2 :BOBBIN HOLDER :R	0L113014R000	R-side spec. TFGN/TFMX/TFMS Series, TLMX/TCMX MIX, TEMX-C, TWMX-C
5	HEXAGON SOCKET HEAD CAP SCREW :M4*25	S120042501TN	
6	SPRING WASHER :M4	S402040001KC	
7	PLAIN WASHER :M4*10*T0.8	S301041002SC	
8	BASE :BOBBIN SHAFT HOLDER :LARGE	0L1310060000	
9	PAN HEAD SCREW :M3*10	S160031002SD	
10	BRACKET :BOBBIN :L	08068010L000	
11	STEPPED SCREW :NO.1 :M4*11.4	512104030000	
12	WAVE WASHER :M6	S305061051TN	
13	PLATE SPRING :T0.5	507805010030	
14	PLATE SPRING	507803110010	
15	PAN HEAD SCREW :M3*3	S160030301MZ	
16	BRACKET :BOBBIN :R	08068010R000	
17	HEXAGON SOCKET HEAD CAP SCREW :M4*10	S120041002TN	
18	WASHER WITH TEETH :M4	S304040851TP	
19	KNOBBED SCREW :K-UN2006 M4*8	S181040801SD	
20	COMPRESSION SPRING :0.7MM DIA.	507607140010	
21	PLATE SPRING :T0.3	507803040030	
22	PAN HEAD SCREW :M2*3	S160020301MZ	
23	SCREW WITH PIN :NO.5 :M4-104	513504020010	
24	HEXAGON NUT TYPE 1 :M4	S210040002SD	
25	BOBBIN :LARGE	0L1310070000	
26	LOWER THREAD GUIDE[A]	0L043142@A00	
27	LOWER THREAD GUIDE[S]	0L043142@S00	
28	THREAD GUIDE COLLAR :1.8MM DIA.	516503010010	
29	ROUND FILLISTER HEAD SCREW :11/64*6	SA43750601CN	
30	TENSION SPRING :NO.2 :0.6MM DIA.	507506040020	6-Needle
30	TENSION SPRING :NO.2 :0.6MM DIA.	507506010020	9-Needle
30	TENSION SPRING :NO.2 :0.6MM DIA.	507506020020	12-Needle
30	TENSION SPRING :NO.2 :0.6MM DIA.	507506030030	15-Needle
31	ROUND FILLISTER HEAD SCREW :9/64*40*12	SA43741201CN	
32	PRESSER :SPRING[S]	090220050S00	15-Needle
33	TRUSS HEAD SCREW :M3*3	S130030301SD	
34	HEXAGON NUT TYPE 3 :9/64*6*2	SB12740601MZ	
35	ADJUSTING LEVER :B[S]	09021014BS00	R-side spec. TFGN/TFMX/TFMS Series, TLMX/TCMX MIX, TEMX-C, TWMX-C
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Note: As for parts with mark @, please follow our instructions on Table of Contents in your parts order. (PT03)

1st Edition April, 1999

13th Edition March, 2013

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